

*The*  
**CHEMIST AND DRUGGIST**

Established 1859

28 Essex Street, Strand, London, W.C.2.

Registered as a Newspaper

No. 2708  
VOL. CXVI.

JANUARY 2, 1932

Annual Subscription (with  
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**HIRST** 

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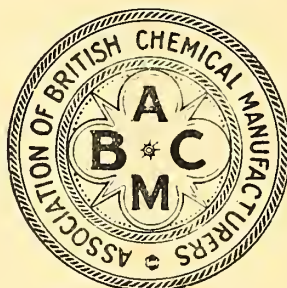
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# **BUY BRITISH— SELL BRITISH— CHEMICALS**

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1932**

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This preliminary Announcement is made  
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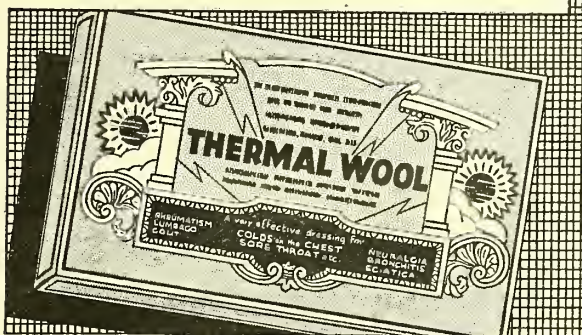
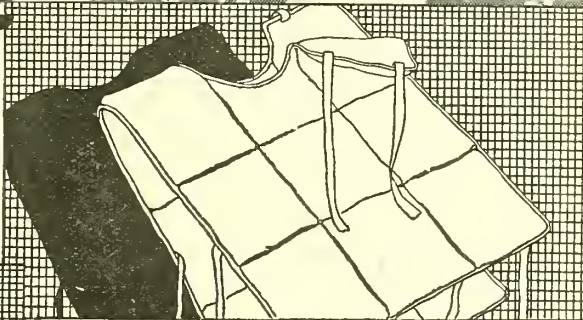
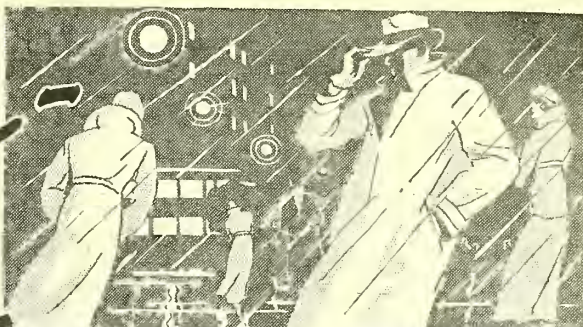
Ash Grove Works, Hackney, E.8

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*Wet  
weather -  
Cold  
weather*

makes  
these lines **"GO"**



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Are you a qualified chemist? If so, why not stock your own brand of **CAPSICUM TISSUE** or **THERMAL WOOL** and sell better value. Write for Samples and Prices.

Our dressing possesses definite advantages over the ordinary Capsicum Wool and provides a cheap and most efficient relief in all cases of Rheumatism, Sciatica, Gout, Asthma, Neuralgia, Bronchitis, Chest-Colds, etc. A mild or vigorous action may be produced as requested. Ready packed in cartons in four sizes.

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SUPPLIED IN SIX SIZES  
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These jackets are made from a special grade of the well-known "GAMGEE TISSUE," of which we are the manufacturers and sole proprietors. They are extremely comfortable, affording great protection against colds, and are invaluable in cases of Pneumonia, Bronchitis and other Chest Affections. Retail prices — 9½d. to 3/- according to size. Write for Samples and Prices.

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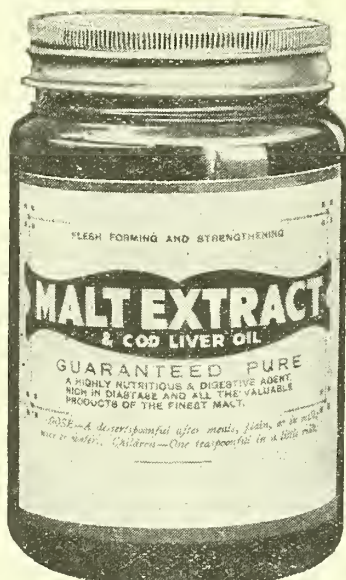
London Office and Warehouse

168 OLD STREET, E.C.1

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# MALT EXTRACT

with COD LIVER OIL



*In consideration of receiving the discounts mentioned below, I agree to purchase my season's requirements of Malt Extract and Malt Extract with Cod Liver Oil from Messrs. Butler & Crispe.*

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Address \_\_\_\_\_

(or slip label)

*Please tear this out and post with your next order.*

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JARS—	$\frac{1}{2}$ lb.	1lb.	2lb.	4lb.	7lb.
per doz.	6/9	9/-	16/-	30/-	51/6
DRUMS—N.H.I. Quality 15% Cod Liver Oil				1lb.	2lb.
per doz.	—	—	—	7/6	13/9

## Malt Extract Plain

JARS—	$\frac{1}{2}$ lb.	1lb.	2lb.	4lb.	7lb.
per doz.	6/7	8/6	15/-	28/-	48/6
DRUMS—					
per doz.	—	7/-	12/9	—	—

Contracts for requirements to June 30th, 1932, will be subject to the following discounts to be allowed by credit note at the end of season.

1 gross	3 gross	9 gross	15 gross	30 gross 1 lbs. or equivalent.
2 $\frac{1}{2}$ %	5%	7 $\frac{1}{2}$ %	10%	12 $\frac{1}{2}$ %

Showcard on Request.

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## *Burt, Boulton & Haywood* LTD.

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Carbolic Disinfecting Fluids containing 3% to 80% Tar Acids.  
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Lysol 50% Cresols guaranteed. Pine Disinfecting Fluids.  
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Cresote Disinfecting Powders containing 5% to 20% Tar Acids.

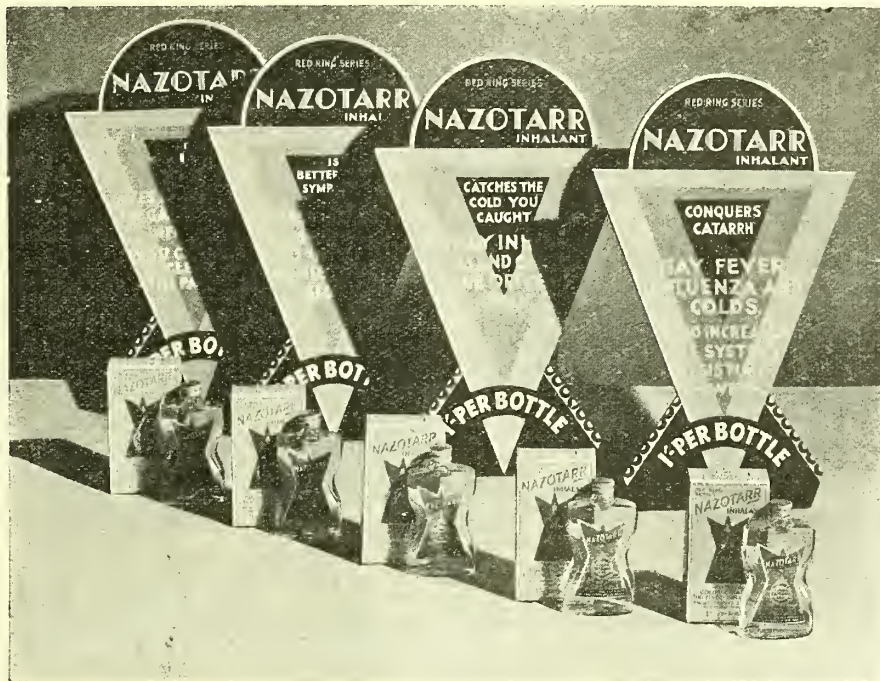
Tar Acids and Rideal Walker Co-efficiency guaranteed. May be sold by Chemists and Druggists under own name.

Special Disinfectant Fluids approved by the Ministry of Agriculture under the "Diseases of Animals Acts." May be packed and sold by Chemists under own name.

SAMPLES AND PRICES ON APPLICATION TO

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Sulphur Candles. Formaldehyde (Formalin) 40% Solution.  
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Carbolic Weed Killer, etc.

**BURT, BOULTON & HAYWOOD LTD** **SALISBURY HOUSE, LONDON WALL, E.C.2**



1/- per bottle

## HAVE YOU ORDERED NAZOTARR BRAND INHALANT?

It is **HAVING A WONDERFUL SUCCESS** and even so early in the season is repeating at a phenomenal rate.

In the words of  
a customer:

**"Its attractiveness captivates  
the eye and its  
efficacy is indisputable."**

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PARTICULARS  
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With free bonus of  
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Manufactured and guaranteed by

**CUPAL LTD., Blackburn**

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THE HOUSE FOR

# DRUGGISTS' SUNDRIES

SURGICAL SUNDRIES  
HOT WATER BOTTLES  
B.P.C. DRESSINGS  
TOILET BRUSHWARE

TRADE



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SPECIAL ALL GLASS  
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*Embossed,  
Decorated  
or Plain*

FANCY CONTAINERS,  
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IN ALL METALS  
AT LOW PRICES WITH  
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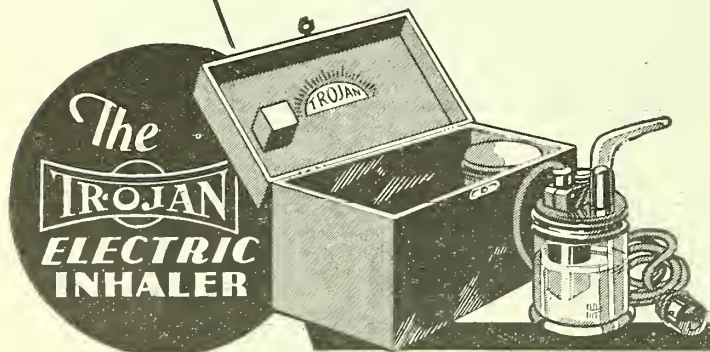
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**ZEAL**

—the name the public knows.

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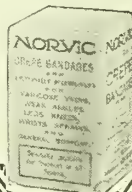
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### NORVIC BLUE CARTON CRÊPE BANDAGES

Full 33 $\frac{1}{3}$ % profit  
P.A.T.A.

A small display of this well-known and highly recommended line brings profitable results.

Attractive showcards from leading wholesalers.



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The "K." All wool in knitted cover, very soft.  
The "CELTEX." Made of Cellulose for easy disposal.

FROM YOUR WHOLESALE HOUSE, PLEASE

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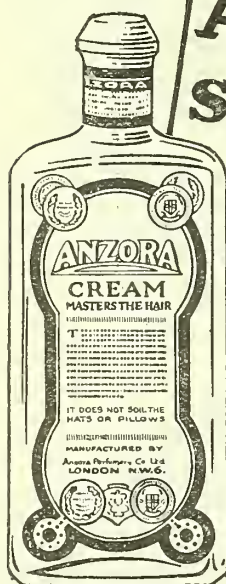


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TRADE



MARK



# ANZORA

sales are  
soaring!

Consistent advertising is sending Anzora sales soaring. Every month sees another leap. All over the country retailers are increasing orders and making bigger profits.

Come in on the rising tide of Anzora sales. Keep these perfect fixatives prominently displayed. We are out to help you—let us know what showcards and cut-outs you need.

## ANZORA

MASTERS THE HAIR

### TRADE TERMS:

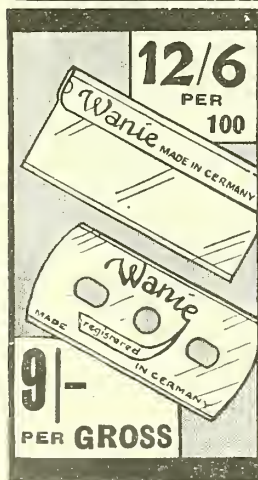
12/- doz.  
Retail at 18/-  
20/- doz.  
Retail at 30/-  
A supply of Attractive  
Showcards and Cut-outs  
for Window Displays  
sent post free.

ANZORA PERFUMERY CO., Ltd. - LONDON, N.W.5

Now Sold  
in 2 types

# WANIE

the  
Blade that is  
USED BY  
MILLIONS!



In response to a growing demand from all parts of the Globe, the makers of Wanie are now producing a new type of Blade—to fit Single-sided Holders. This new Blade has all the characteristics that made the original WANIE (Three Hole Pattern) famous throughout the World. A long-lasting edge that gives smooth, soothing shaves.

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The "Ideal" Wave Preserver is a new profitable line for the Chemist Trade. It is an "extra" line that in no way steals sales from existing profitable goods stocked by you. The success of the "Ideal" Wave Preserver is assured, for its strong novelty appeal will awake an instant response.

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Packed in single envelopes

18/- per gross

On orders of 5 gross and over in single packing  
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Stock box indexed in shades.

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To meet a widespread demand we are now marketing a new preparation named Oilafix. It is merely our well-known non-greasy Hair Cream with added oil. Oilafix does not compete with Jackel's Hair Cream—but you should stock both. Many customers to-day demand an Oil Cream.

Both are the best of their class—  
The original and leading Creams.

#### OILAFIX

12/- per doz., retailing at 1/6 per bott.

20/- per doz., retailing at 2/6 per bott.

#### JACKEL'S HAIR CREAM

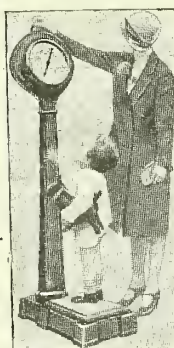
11/6 per doz., retailing at 1/6 per bott.

18/- per doz., retailing at 2/6 per bott.

**JACKEL et CIE (of Paris) Ltd.**

GLASGOW, C.2

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**EXPORT**—Buy now on favour-  
able Exchange Rate

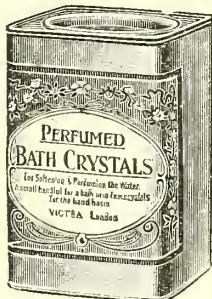
**THIS LINE IS A LEADER!!**

# BATH CRYSTALS

A very smart and attractive pack in square gilt Tins and nicely labelled.

Supplied in

2 lb. size	-	14/6 doz.
4 lb. size	-	22/- doz.
7 lb. size	-	30/- doz.
14lb. size	-	56/- doz.



Delicately Perfumed

LAVENDER  
VERBENA  
COLOGNE  
ROSE

**A Quick and Constant Seller.**

Please enquire for our new general Catalogue, which will be gladly sent on request.

## WILLIAM EDWARDS & SONS

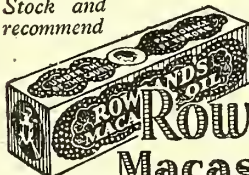
*Wholesale and Export Druggists' Sundriesmen*

**14-18 NILE STREET, CITY ROAD, LONDON.**

### Selling Suggestions

Rowland's Macassar Oil keeps the hair naturally immaculate, for it controls the hair simply by making it soft and flexible.

Stock and recommend



Of all Wholesalers,  
to retail at 3/6,  
7/- and 10/6.

**Rowland's  
Macassar Oil**

J. H. & Co.

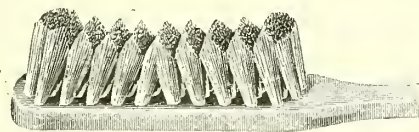
A. ROWLAND & SONS, Ltd., 22 Laystall St.,  
Rosebery Avenue, London, E.C.1

### G. B. KENT & SONS, LTD.

Are known the World over as  
the Largest Manufacturers of

**BEST  
BRITISH  
RUSHES**

Please write for full Particulars to :  
**75 FARRINGDON ROAD, E.C.1.**



## BOTH-WAYS TOOTH BRUSH

ATTRACTIVE—EFFECTIVE—  
DURABLE

ALL HARD BRISTLES UNLESS OTHERWISE ORDERED

**KEEPS ITS STIFFNESS**

Gent's 11/-

Lady's 8/-

**BIDWELLS,  
AXMINSTER**



BIDWELL BIDWELL & CO LIMITED.

# Big turnover from "Oambroo" BEER!

Sales of "Viggormalt" . . . the successful preparation for the brewing of pure "Oambroo" Beer . . . are going up by leaps and bounds. And no wonder, for "Viggormalt" is original and unique!

## VIGGORMALT FOR 1932

"Viggormalt" provides the public with a preparation infinitely superior to anything of a similar nature previously offered . . . the means of brewing at home GENUINE, wholesome Beer (ALE or STOUT).

You can build up a big demand for "Viggormalt." Start 1932 with a good display, and see how quickly "Viggormalt" will sell . . . for "Viggormalt" is being persistently advertised in popular journals having national circulation.

Send the Coupon below for particulars.



NO  
MILLING  
MASHING  
BOILING or  
FILTERING

To: VIGGORMALT, LTD.,  
Davigdor Road,  
Hove, Sussex

Date.....

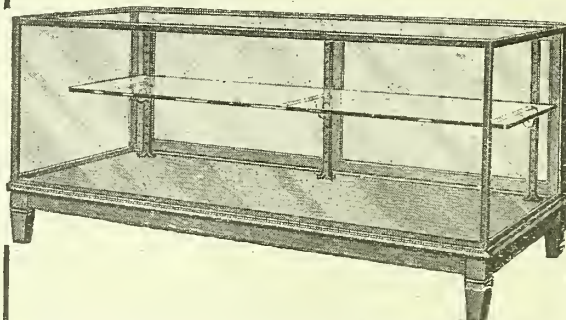
Please send full trade particulars concerning  
VIGGORMALT.

Name .....

Address .....

[C.D.2]

## GLASS COUNTERS BRING MORE TRADE



No. CD/SF.2920. A soundly constructed Display and Serving Counter made in our own works at Holloway Road—6 ft. x 3 ft. x 2 ft. oak or mahogany framing, glazed new  $\frac{1}{4}$ " drawn plate glass top, front, and ends. Clear glass sliding doors at back. Interior fitted 1 row of shelves 12" wide, brown bronze bars and brackets.

### DEFERRED TERMS.

An initial payment of 18/10 secures this counter, and 11 further equal monthly payments of the same amount make it your own complete property.

£10-15-0

Cash Price. Ex. Works.

Send for our New List No. C.D.1260.

**DUDLEY & COMPANY LIMITED**

451 HOLLOWAY ROAD, LONDON, N.7

City Showrooms: 65-66 FORE STREET, E.C.

WESTMINSTER COLLEGE OF PHARMACY.

## WILLS' UNIVERSAL POSTAL SYSTEM

FEES (GT. BRITAIN & N. IRELAND).

PRELIMINARY SCIENTIFIC COURSE - £1 10

QUALIFYING COURSE - - - - - £1 10

APOTHECARIES' HALL COURSE - - - £1 11 6

POSTAL COURSE PROSPECTUS POST FREE

from The Secretary,

190 CLAPHAM ROAD, S.W.9.

MANY SUCCESSES IN THE EXAMINATIONS

Your Opportunity to

## QUALIFY IN OPTICS

**PRACTICAL WORK.** Personal tuition in the practical work is a distinctive feature. Students can avail themselves of the practical classes held during examination times when they are in London.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).

Write for full particulars—

G. A. SCURR, M.P.S., F.S.M.C., F.B.O.A., F.N.A.O., B.Sc., F.I.O., F.C.O.  
50 HIGH STREET, BARNET, LONDON, N.

# Chemist—or Shopkeeper? Profit—or small percentage? For Yourself—or are you building a proprietary trade for all the Shopkeepers in your district?

Every proprietor of a registered name or "patent" goes first to the CHEMIST——WHY? Because the Confidence of the Public is in the Qualified, Professional, Experienced, Level-headed Chemist.

Soon the article begins to get a market: press advertising is undertaken out of first profits, and then the proprietor (looking only for channels of distribution) begins the "National" campaign, including the Grocer, the Hairdresser, the Stores, the Draper, the Ironmonger, the General shop, the Market stall, and—the Pedlar:—ALL ON THE FOUNDATION OF THE CHEMIST'S GOODWILL.

The irony of it is, that the "patent" is a simple drug, compound, or article to be found in any and every pharmacy, but masquerading under a high-faluting branded name, priced at treble their value, although rendering less than half the profit, and none of the user-satisfaction which a good P.J.F. or B.P.C. gives.

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FOR

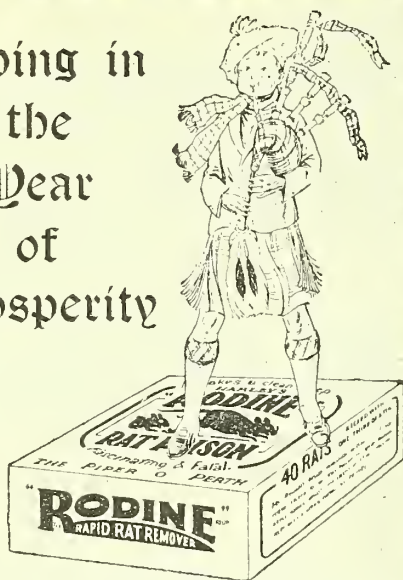
1932

CHEMISTS!  
SELL YOUR  
OWN GOODS!

Get full particulars of Ayrton's  
RESERVABLE SERIES of practically  
every preparation on your shelves. See the coloured illus-  
trations on pages 225 to 232 of their Illustrated PRICE  
LIST, and decide to sell goods

UNDER YOUR OWN NAME  
AND EXCLUSIVE LABEL DESIGN

Dipping in  
the  
Vear  
of  
Prosperity



The Rodine Proprietor sends heartiest greetings to ALL CHEMISTS. The true economy for Chemists in 1932 is to push Rodine and ensure Prosperity.

**Rodine Works, Perth, Scotland**

## BATTLE'S VERMIN KILLER

Of all Patent Medicine  
Houses at 3/-, 5/-  
and 9/- per dozen.

In packets at 5d.,  
9d. and 1/3 each.  
(P.A.T.A.)

The sure destructive agent which may be  
confidently recommended by Chemists for  
quick clearance of rats and mice.  
(Users' testimonials on request.)

Prepared only by  
**J. C. M. BATTLE, Ph.C., LINCOLN**

# CORKS

*for Chemists.*

Send us your Enquiries  
and compare our prices.

*Wholesale and Export.*

## C. OLLEY & SONS, LTD.

Established 1844.

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**METALLIC CAPSULES**  
FOR ALL KINDS OF BOTTLES AND JARS.

**The Tonkin Metallic Capsule Co.**

*Proprietors: C. Olley & Sons, Ltd.*

## SIEVES & GAUZES

**TESTING SIEVES** Single &  
in Sets

**FINE MESHES UP TO 320**

## STEVENS & MANNING

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USIEVEIT—Boro—London

## NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's  
Ailments is advertised so extensively in the  
daily and weekly Press as to bring mothers to  
the retailer without effort on his part.

The selling has been done before the mother  
reaches the chemist, and, having supplied her, it  
is only common sense to claim she will buy other  
family necessities from him. Moreover, the con-  
tinuous demand for it produces a quick turnover.

*For Direct Terms apply to—*

**OSCAR SCRUTON & CO., YORK**

**SALE**  
**POSTERS & TICKETS**  
Colored Illustrated Lists Free  
**DUDLEY & COMPANY Limited**  
451, Holloway Rd, London N.7.  
City Showrooms:  
65/66 FORE ST. E.C.2

# RECORD SALES in 1931 STILL GREATER SALES in 1932

★ **Begin the New Year  
by taking these  
NEW PROFITS**

**T**HOSE Pharmacists who consistently displayed Bob Martin preparations throughout 1931 have good reason to congratulate themselves on their profits for the year, during which all previous Bob Martin sales records have again been broken. Mr. H. Walker, of South Kirkby, for instance, says Bob Martin display material "has trebled the sales of your preparations." Trebled sales mean *new* profits—you are surely losing money every day if you do not have a Bob Martin display in your window.

The Bob Martin *New Year* advertising campaign is bigger than ever. Spaces in the great National newspapers and periodicals are in many cases more than doubled, and every one of these advertisements clearly shows dog owners that their dogs cannot enjoy proper fitness unless they are given

Bob Martin's tasteless Condition Powders without delay. Dog owners are acting on this advice—someone is recognising the benefit *now* of the increased sales that are being made in your district.

In a day or so you will be re-dressing your window—a fine opportunity to make a Bob Martin display which will bring in *regular* business from dog owners in your own district. Nearly half the people who pass your Pharmacy every day are dog owners, who will not only buy *now* for their dogs' immediate needs, but who require Bob Martin preparations throughout the whole year.

A regular Bob Martin display is your guarantee of consistent custom—can you afford to miss this chance of larger sales which will start from the day Bob Martin preparations go into your window?

**COUPON**

Please send me the special Bob Martin Winter Display material **AT ONCE.**

Name.....

Address.....

To Wholesale House or to Bob Martin Ltd., Southport, Eng.

The latest Bob Martin display material is available immediately. Mail this coupon to Southport to-day, if you would like displays sent direct to you, or hand it to your wholesaler's traveller as a special requisition.

**BOB MARTIN LTD.**  
Dog Food and Medicine  
Manufacturers since  
1892.  
**SOUTHPORT,  
ENG.**



**"VITAMIN TESTED YEAST"**

*Yeast specially prepared for medicinal purposes.*

GUARANTEED ABSOLUTELY PURE.  
MIDGLEY & PARKINSON, LTD.,  
WARREN WORKS, PUDSEY, LEEDS.



AZYMA

**CACHETS**

FRENCH, MORSTADT,  
and the new DRY CLOSING

Prices on Application

ALL SIZES

(Carr. paid on 4,000)

Special quotations for quantities and for printing  
Write for Samples to:  
CICERO S. CLARK, *Sole Agent*,  
12 RICHMOND ROAD, W.2

**SALES OF "TENZ" TAKE AWAY THE BREATH**

"Tenz," the tablets that sweeten the breath without scenting it, are being used by people in every walk of life.  
"Tenz" Antiseptic Tablets instantly remove all odours from the breath. There is a universal demand for this line. Keep the dainty Display Box on your counter, and get your share of the sales. Sells at 3d. per tube and shows big profits. Order direct or from your usual Wholesaler.

Tenz Manufacturing Co., 8 Fairfield St., Manchester

**IONIZED IODINE**

(MOLSON BRAND)

Obtainable from the usual wholesalers or the makers

**MOLSON IONIZED IODINE CO. Ltd.**

34 C, GABRIEL'S HILL, MAIDSTONE

**ALL CHEMISTS SHOULD STOCK****ABDINE**

THE GOLD MEDAL HEALTH DRINK

Quick Seller. Big Profits. Over 50 years' Reputation.

"Abdine" is the most popular Health Drink. Perfectly safe for all ages. Made from choicest fruits, it does not contain Epsom or Glauber Salts. Year after year the sales are steadily increasing.

DUNCAN McGLASHAN LTD., ABDINE WORKS, WESTFIELD RD., EDINBURGH

GET A PRICE

**RUSHTON SHOPFITTINGS** DESIGNS FREE

NEWPORT

**SHADEINE**  
FOR TINTING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

Trial size 8s. per doz. . . . . 6/-

1/4 size, per doz. . . . . 12/-

2/6 size, per doz. . . . . 21/-

3/9 size, per doz. . . . . 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2

**BALLOONS**PRINTED with your  
ADVERTISEMENT  
or BLOCK

COMBS, PRESENTS, LEATHER GOODS, NOVELTIES, ETC.

Deal from the oldest established firm in the Trade:

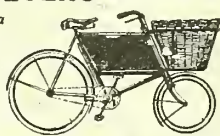
STANBERTS, LTD., STANBERT HOUSE, (Dept. "P"),  
377 KENNINGTON ROAD, S.E.11 Reliance 1762.

STOCK "JAZZO" THE MAGIC DANCE FLOOR POLISH

**•If it's SHAVING CREAM, it's Williams**

• Order direct from—

W. H. THOMAS, 50/52 Union St., London, S.E.1

**£8-10 CHEMISTS' CONVEYERS £6-19-9**A New Era  
in Road  
TransportSingle Basket  
Carrier  
£4 19 9

GRANDEX CARRIERS, ALMA ROAD, ST. ALBANS

**CHEMISTS' FITTINGS**  
OF EVERY DESCRIPTION.  
NEW AND SECONDHAND.F. MAUND & E. BERG (SHOWCASES) LTD.,  
175/9 and 336 OLD STREET, LONDON, E.C.1**NEW DAYLIGHT SIGNS**

Any of these as a Board NO-BOX-MIRRORS

COLOURS Single Signs

UPRIGHT or HORIZONTAL

Brilliant at all angles NOT A DUST TRAP

Can also be adapted for Box Electric Signs

Available for PROTECTING WINDOW & VAN SIGNS, FACIAS, & ETC.

Send for PRICE LISTS & PHOTO ILLUSTRATIONS.

National Advertisers 2 1/2" 1 1/2" 10" Double Sided with Brackets, in Quantities

ALLAN MFG CO LTD 129 GRAYS INN RD. W.C.1 14/6

**THE CHEMIST'S COMPACT LIBRARY—Money-making and Money-saving Books**  
**EVERY BOOK by an EXPERT**

May be obtained at the published prices from any Wholesale Drug or Sundries House, or from

**"THE CHEMIST AND DRUGGIST," 28 ESSEX STREET, LONDON, W.C.2**

BRANCH OFFICES: Manchester and Sheffield, England; Glasgow, Scotland; Melbourne and Sydney, Australia; Auckland, New Zealand.

**DRY BATTERIES**

SELL ALL THE YEAR ROUND

PIFCO carry a twelve months' storage guarantee and only cost 4 1/2d. subject.

Illustrated Catalogue free.  
85 PIFCO HOUSE - MANCHESTER

**Cachet** CLOSING and FILLING **machines**

3/6 to 32/6

to suit all Dispensing Requirements.

WRITE FOR ILLUSTRATED LIST.

THOS. CHRISTY &amp; CO., 4-12, Old Swan Lane, LONDON, E.C.4.

# A Customer Magnet for your window



If this attractive 4 plane cut-out show-card, lithographed in 10 colours, is exhibited in your window for two weeks you will qualify for a bonus of 1 dozen boxes Rendell's Pessaries.

Please write for full particulars and conditions of this offer.

## RENDELL'S PESSARIES

Reputation Tells!

### MORFI RUBBER PRODUCTS

#### KAYDOR LTD.

Telephone: Museum 9143.

LONDON, W.1

### THE "SAFEGUARD"

BRAND OF RUBBER GOODS

Are SUPPLIED TO CHEMISTS & DRUGGISTS ONLY  
FINEST QUALITY... HYGIENIC PACKING

Write for Samples and Prices.

**BURGE, WARREN & RIDGLEY, LTD.**

91/92 GREAT SAFFRON HILL, E.C.1

Phone: Holborn 0050. Telegrams: Pessaries, Smith, London.

### Corks & Stoppers

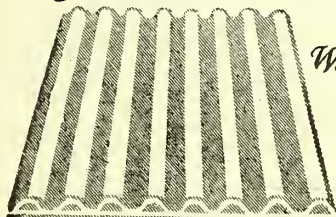
All progressive business firms are keen buyers. Money saved in buying is extra capital. Nobody to-day can afford to buy other than in the best market.

Mundet

Cork Products Ltd.

12/16 Abbey street  
TOWER BRIDGE ROAD London S.E.1  
Telegr. Mundetcomp Berm London  
Telephone: HOA 2685

### Corrugated Packing Materials Co., Ltd.



4, Ambrose St.,  
West Gorton, Manchester

**BOXES, CARTONS,  
PARTITIONS, &c.**

for all purposes.

PHONE:  
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WIRES:  
"CORRUPAPER,  
MANCHESTER."



## **TO ALL WHOM IT MAY CONCERN:—**

We, **DARWINS LIMITED**, accept full responsibility for our products, and we hereby indemnify any customer or stockist of our De Luxe type Safety Razor Blades against any expense incurred by reason of any legal proceedings to recover damages or to restrain alleged infringement of patents in respect of such blades, provided that no settlement is made without our consent, and that any claims are forwarded immediately to us; and further, that the Defence to any action or proceedings shall be entrusted to us.

**Fitzwilliam Works, Sheffield**

### **Doans' Aid to Good Trade in 1932**

We extend to all our friends and customers our sincere wishes for a prosperous New Year. Our practical contribution is shown in the changes indicated below :

#### **Two New Sizes of Doans**

Two new sizes of Doans' Backache Kidney Pills have been introduced, retailing at  $\frac{1}{3}$  and  $\frac{5}{-}$ . Revised price lists will willingly be sent on request, also show cards and other advertising material, if needed.

#### **Best Prices for £5 lots**

The minimum value of best price parcels, assorted or otherwise, has been reduced to **£5**. Our guarantee to exchange, replace or refund for any goods returned to us, continues to protect you against all risk, and our general trading terms are unaltered.

#### **New Address**

Our General Offices have been transferred to more convenient premises at :—

**MORTIMER HOUSE,**

**37-41 Mortimer Street, London, W.1**

**Foster-McClellan Co.** Manufacturing Chemists.

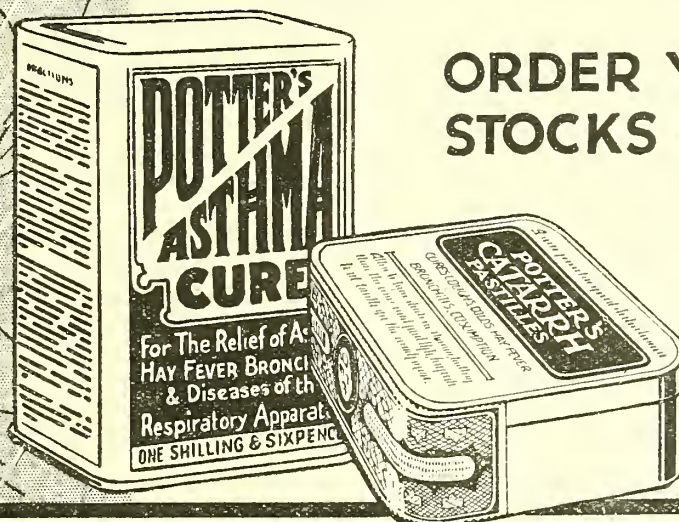
# Discovered

*Thousands of new sufferers from Asthma and Catarrh have discovered the wonderful efficacies of*

## Potter's Asthma Cure *and* Potter's Catarrh Pastilles

*The demand will be greater than ever*

**ORDER YOUR  
STOCKS NOW**



POTTER'S  
ASTHMA CURE  
RETAIL

1/6 P.A.T.A. 14/-d03

POTTER'S  
CATARRH PASTILLES  
RETAIL

1/3 P.A.T.A. 11/-d03

**POTTER & CLARKE LIMITED.** *Drug Merchants, Manufacturing Chemists.*  
60, 62, 64, ARTILLERY LANE, E.I. 'Phone Bishopsgate 4761-5 lines. Grams-Horsehound, 'phone London (2 words)  
and 24, LUNA STREET, GREAT ANCOATS, MANCHESTER. 'Phone Manchester City 6048. Grams-Horsehound Manchester

**QUALITY  
H 14a  
STILL  
SUPREME**

# HOT WATER BOTTLE COVERS

**BRITISH  
MADE  
FROM  
BRITISH  
MATERIAL**

**"SOLPORT'S GOODS ARE GOOD GOODS"**

## QUALITY H14a VELOURS

**STILL LEADS FOR EXCELLENCE AND VALUE**

**BEST BRITISH MAKE FROM BRITISH MATERIAL  
AT STRICTLY COMPETITIVE PRICES**

**LOOK FOR THE BRAND "H 14A" ON THE TAB**

**ESTABLISHED 1857**

**SOLPORT  
BROTHERS LIMITED**

**ESTABLISHED 1857**

Telephone:  
Clerkenwell 9211 (3 lines)

**184-192 GOSWELL ROAD, LONDON, E.C.1**

Telegrams:  
Solport, Barb, London

## . . . Win More Sales With "WINNING COLOURS" Dyes!

Packed in  
Glass Tubes and  
Attractive Cartons.

RETAIL AT

**2d.**

PER PACKET.

Cost **16/-** per gross.

Terms:  $2\frac{1}{2}\%$  7 days.  
Carriage Paid.

Attractive Show Matter  
and Leaflets Supplied.

Send a **TRIAL ORDER**  
to your Wholesaler.

*(with the Little Secret)*

## DOUBLE STRENGTH SUPER DYES

*for successful HOME DYEING of all  
Dress Materials, Stockings and Household Fabrics*

*Manufactured by*

**THE UNITED INDIGO & CHEMICAL CO., LTD., HUDDERSFIELD**

### "WINNING COLOURS"

will dye any dainty  
fabric without risk of  
damage or mishap in the  
hands of the amateur  
dyer.



### "WINNING COLOURS"

dye with a perfectly  
even tint — no cloudy  
effects, spots or blotches.  
The ideal fast dye for all  
materials.

**The UNITED INDIGO & CHEMICAL Co. Ltd.  
HUDDERSFIELD . . . YORKSHIRE**

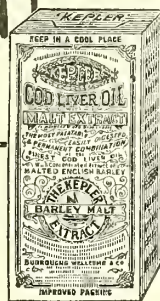
*SALES AGENTS FOR SOUTHERN ENGLAND:—*

**THE PHIL-SANO CO., LTD., CRAVEN HOUSE, LONDON, W.C.2**

# THE DIFFERENCE that flavour makes



'KEPLER' Cod Liver Oil with Malt Extract is so delicious that children are eager to take it. Rich in Vitamins A, B and D.



*Reduced  
facsimile*

**'KEPLER'** TRADE MARK

**COD LIVER OIL**

**WITH MALT EXTRACT**

Recommend 'KEPLER' Cod Liver Oil with Malt Extract for its attractive flavour and exceptional nutritive qualities. Prepared exclusively from the finest cod liver oil and the best malted barley.

**IMPROVED PACKING  
REDUCED PRICES**

Bottles of two sizes, at  
24/6 and 43/6 respectively  
(subject)

*Prices in London to the Trade*



**BURROUGHS WELLCOME & CO., LONDON**

G 1638

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*The Motto for 1932 —*

*Buy British Drugs  
from  
The British Drug Houses*



Graham Street, LONDON, N.1

# THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,  
The Chemists' and Druggists' Society of Ireland, and of  
other Chemists' Societies in Overseas Dominions*

PUBLISHED AT

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London" Telephone: Central 6565 (8 lines)

## BRANCH OFFICES

4 CANNON STREET, MANCHESTER (TEL.: BLACKFRIARS 3052)  
19 WATERLOO STREET, GLASGOW (TEL.: CENTRAL 2329)

54 FOSTER'S BUILDINGS, HIGH STREET, SHEFFIELD (TEL.: 22458)  
99 QUEEN STREET, MELBOURNE, AUSTRALIA

VOL. 116. NO. 2708

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## News of the Week

### Safeguarding of Industries Order

The Treasury has made an Order (the Safeguarding of Industries (Exemption) No. 6 Order, 1931), dated December 17, 1931, exempting from Safeguarding of Industries Act duty phloroglucin not entered nor removed from a bonded warehouse before December 24, 1931.

### Contracts

The following tenders have been accepted by the bodies named:—

Government of India.—Souplex, Ltd., Morecambe, "Double Six" army razor blades.

Gravesend Education Committee.—Mr. F. A. Moore, chemist and druggist, drugs, etc.

Great Yarmouth Town Council.—Mr. A. E. Richmond, chemist and druggist, drugs, etc.

Macclesfield Infirmary.—Evans Sons Lescher & Webb, Ltd., drugs; Robert Bailey & Son, Ltd., dressings.

### Inquests

An inquest was concluded by the St. Pancras (London) coroner, on December 22, on the body of Mr. James N. Searle, a commercial traveller. The inquest had been adjourned for the purpose of obtaining evidence from the Pharmaceutical Corporation, Ltd., his employers, as to the nature of an anæsthetic made by them. Evidence showed that death was due to natural causes, and a verdict was recorded correspondingly.

An inquest was held at Stoke-on-Trent, on December 18, concerning the death of Dr. Bertie Edward Acland. It was stated in evidence that the deceased had been drinking heavily. He picked up a tube con-

taining morphine and atropine tablets, and took the contents in mistake for a tube containing calomel tablets. A verdict of "Death due to an overdose of morphine taken by misadventure" was returned.

At an inquiry, held on December 19, concerning the death of Norma Porter, a shop assistant at Walton, Liverpool, it was found that death was due to taking a dose of salt of lemon in mistake for health salts, both of which were in a cabinet in a bath-room. "It seems to have been unwise," added the coroner, "to have kept these two salts, one so useful and the other so dangerous, and both so remarkably alike, alongside one another."

An inquest was held recently at Stafford on the body of Harry F. Pennells, who died as a result of poisoning by cocaine. The coroner emphasised the need for a careful investigation of all the circumstances, remarking that they wanted to do all they could to prevent the "damnable drug" cocaine being obtained. It was stated that the organs of the deceased contained 27.82 gr. of cocaine, 10.36 gr. being from the stomach. It was added that he was a dispenser at a seamen's hospital at Greenwich about twenty-five years ago, and it was thought he had obtained the cocaine from that institution. The jury returned a verdict of "Suicide whilst temporarily insane."

### Miscellaneous

FIRE.—There was an outbreak of fire at the premises of Boots, Ltd., Bond Street, Blackpool, on December 25. The flames were quickly extinguished by the fire brigade.

SPORTING EVENTS.—Ipswich Chemists' Hockey Club, mixed team, played Woodbridge, away, recently; the game was a strenuous one and resulted in a draw, 2—2.

**WINDOW SMASH.**—A motor-bus ran into the front of the premises of Mr. A. R. Jesson, chemist and druggist, Mansfield Woodhouse, recently, shattering the window and doing damage to the contents.

**WINDOW-DRESSING AWARD.**—W. J. Fisk, Ltd., chemists, Romsey, have been awarded the first prize in a window-display competition recently arranged by the Romsey and District Chamber of Trade.

**COMMERCIAL TRAVELLERS' BENEVOLENT INSTITUTION.**—The eighty-second annual report of the Commercial Travellers' Benevolent Institution, presented at the annual meeting held in London on December 29, states that during the past year the sum of £18,302 has been disbursed to members and widows under its auspices. The Institution is now maintaining 545 annuitants.

**CHRISTMAS TRADE IN CORNWALL.**—Retailers in Cornwall report that less money than usual was spent in Christmas shopping, but that the number of customers was equal to that of previous years. Mr. W. T. Hall, chemist and druggist, Truro, states that his Christmas trade has on the whole been equal to that of 1930. Mr. W. F. Young, chemist and druggist, Liskeard, is reported as saying, "We have done better than in 1930."

**DANGEROUS DRUGS ACTS.**—At Manchester City Police Court, on December 23, Alfred Whalley, Ltd., chemists, Church Street, Newton Heath, were fined £5 for failing to keep certain "dangerous" drugs in a locked receptacle. Mr. Alfred Whalley (managing director) said a padlock was used to lock the cupboard, but the manageress had taken it to town with her. The company, it was stated, had been in business for over thirty years, and there was no previous conviction against them.

## Scottish Notes

### Brevities

The first spell of severe weather has occasioned a brisk demand for seasonable lines.

The annual meeting of the Chemical Society will be held in Glasgow on March 18.

"Christmas business," writes a correspondent, "was very slow, and most of the purchases were of the cheaper varieties."

A quantity of perfume was stolen when thieves entered the premises of William Doig & Sons, chemists, 1A High Street, Dundee. The shop of Mr. James Gibson, chemist and druggist, Cleington Road, Dundee, was also broken into recently.

A complimentary staff dinner was given by Mr. and Mrs. Thomas Harley, at the Station Hotel, Perth, on December 15, on the occasion of the completion of ten years' service by two employees—Miss Margaret Monteith and Miss Amy M. Christie.

The annual report of the Chemists' Friendly Society states that during the year 400 persons have been admitted to membership and that the Society's invested capital stands at £32,501 (nominal value). In addition to paying double the statutory cash benefits, the Society continues to give assistance towards the cost of dental and ophthalmic treatment and surgical appliances.

## Irish Notes

### Brevities

The annual dance of the Irish Chemists' Assistants' Union will be held in January at the Gresham Hotel, Dublin.

A fire occurred recently on the premises of Mr. M. Tucker, Ph.C., Cork; the outbreak was stated to be due to the overturning of an oil stove.

On December 21, Mr. John P. K. Colhoun, Ph.C., and Mr. Albert F. Browne, Ph.C., Strabane, were each fined 20s. for failure to keep records of the sale of methylated spirits.

The Dublin Press reports that Sir Thomas Robinson (Hayes, Conyngham & Robinson, Ltd.) is to be asked

to stand as a Government candidate for Dublin County in the coming Free State general election.

At an inquest on the body of Francis Sheridan, farmer, Aughagar, Smithborough, a verdict to the effect that he died from strychnine poisoning and there was no evidence to show how it was administered was recorded.

A verdict of "Suicide during temporary insanity" was returned at the recent inquest on the body of Samuel Lowry, Belfast, who died from phosphorus poisoning. Mr. John J. McVeigh, Ph.C., stated that Lowry told him his house was infested with rats, and asked for something to kill them; witness supplied a small tin of rat poison.

## Festivities

### Nottingham Function

An enjoyable bridge and whist drive was held under the auspices of the Nottingham and District Branch of the Pharmaceutical Society, at Marsden's Café, on December 10. The prizes for bridge were won by Mrs. Bentley, Mr. Sparshot and Miss Reynolds; those for whist by Mr. and Mrs. Jarman and Mrs. Ellis. The prizes were presented by Mrs. J. R. Ball (wife of the president). It was decided to hold a similar function later in the season.

### Manchester Whist Drive

A WHIST drive in connection with the Manchester Pharmacy Club was held on December 16. The function was fairly well attended. The donors of the prizes were Messrs. Brindle, Cronin, Edwards, Mainwaring and Thorpe; the prizes were presented by Miss Roberts, as follows:—*Ladies*, (1) Mrs. Duncan; (2) Mrs. Dewhurst; (travelling prize), Mrs. Dewhurst. *Gentlemen*, (1) Mr. J. Cleworth; (2) Mr. D. Lewis; (travelling prize), Mr. Doncaster. A vote of thanks was accorded to the donors of the prizes.

## Retail Pharmacists' Union

### Branch Meetings

**Manchester.**—A special meeting of the Manchester, Salford and District Branch was held at the Houldsworth Hall on December 17. Mr. J. Cleworth (chairman) outlined the purpose for which the meeting had been called, and explained the present unsatisfactory condition regarding the sale of the G. package of Cow and Gate Food. Mr. A. C. Bowden (sales manager of the Cow and Gate Food Co., Ltd.) outlined the difficulties with which his company had to contend in supplying packets of food to retail chemists, who, in endeavouring to compete with the clinics, were not of one opinion as to the price at which to sell it. Some sold it at 1s. 8d., others at 1s. 9d., and still others at 2s. The company were desirous of ascertaining the wishes of the chemists of Manchester, Salford and district, and if it was at all possible they would supply all the chemists in that area instead of, as previously, a limited number. The sale of the packet food had not resulted in a decrease in the sale of their food in tins. A long and animated discussion took place, during which many examples of the abuse of the supply of food by clinics were disclosed. It was agreed that the G. package of Cow and Gate Food would be supplied to any chemist in that area who would give an undertaking not to sell the 1-lb. package at less than 2s. The chairman, in proposing a cordial vote of thanks, said they had every reason to be grateful to Mr. Bowden for the trouble he had taken to explain the position and for the undertaking to protect the price definitely fixed to their mutual satisfaction. Mr. D. Dickson seconded, and the vote was carried with acclamation.

## Business Changes

MR. JAMES A. MOIR, chemist and druggist, has commenced business at 115 Main Street, Kilwinning.

MR. W. J. OWEN, chemist and druggist, Troedyrhiw, South Wales, has removed from 2 Victoria Buildings to new premises at 8 Bridge Street.

MR. H. R. CAMPLIN, chemist and druggist, has purchased the business of Mr. F. B. Nichols, chemist and druggist, High Street, Petersfield.

BURKETT, SHARP AND CO., merchants, have removed from 27 Mincing Lane, E.C.3, to new premises at 17 Creechchurch Lane, Leadenhall Street, London, E.C.3. Telephone; Avenue 3701.

THE Manchester office of Astor Boisselier & Lawrence, Ltd., importers, 5/6 St. Dunstan's Hill, London, E.C.3, has been closed; Mr. A. A. Haley, 843 Kingsway, East Didsbury, Manchester, will continue to represent the company in the North of England.

## Gazette

### Bankruptcy Acts

#### RECEIVING ORDER AND ADJUDICATION

SHUFFLEBOTHAM, E., 1 Dee Fords Avenue and 24 Christleton Road, Chester, chemist and druggist.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Tuesday, January 5

South-West London Chemists' Association and Branch of the Pharmaceutical Society, Stanley's Restaurant, Lavender Hill, London, S.W.11. Christmas party.

### Wednesday, January 6

Croydon Pharmacists' Association and Branch of the Pharmaceutical Society. Whist drive.

National Association of Women Pharmacists, Manchester and District Branch, Medical School, University (Copeland Street entrance), at 3 p.m. Miss Phyllis Mawer will open a discussion on "Experiences in the Opening of a New Pharmacy."

### Thursday, January 7

West Ham and Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society, Red Triangle Club, Greengate Street, Plaistow, at 7.15 p.m. New Year party. Proceeds to the Benevolent and Orphan Funds of the Society.

JUNIORS' CONFERENCE.—The West Ham and Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society will hold a conference for juniors at the Red Triangle Club, Greengate Street, Plaistow, at 2.45 p.m., on Thursday, January 14, when Mr. H. N. Linstead (secretary of the Pharmaceutical Society) and Mr. Arthur Mortimer will give addresses. The conference will be followed by a dinner and dance at 6.30 p.m. Tickets, juniors, 3s. 6d. each; seniors, 5s. each.

# Topical Reflections

By Xrayser

### Another Year Ended

without any apparent change in the pharmaceutico-political situation makes one reflect upon the irony of things. Twelve months ago I was able to comment upon the fact that the full text of the Pharmacy and Poisons Bill, now a Government measure, had been published in the previous week's *C. & D.*, and there seemed little reason then to doubt that the Bill would have become an Act of Parliament long before this. But Fate has decided otherwise; the prospect confronting us is that we may have a stronger Government, with an unprecedented majority to support it, prepared to deal in the course of the next few months with the problem that has vexed us so long. There appears to be an impression in official circles that the Bill will be revived and make its second début in Parliament in substantially the same form as we last heard of it. This will not, of course, meet the views of the extremists in the ranks of pharmacy; but it is difficult to see how they can expect to influence the course of events sufficiently to prevent the Government from passing the Bill into law.

### Undiluted Optimism

regarding the potentialities of the Retail Pharmacists' Union seems to have prevailed at the district meeting of the Union recently held at Cardiff, judging from the many problems which those present called upon the R.P.U. to solve (*C. & D.*, December 26, p. 746). First, we find one of the speakers urging Mr. Mallinson to provide for a separation of pharmacy from poisons in the next Pharmacy Bill. Next there was a claim for restriction to chemists in such a Bill of the supply of veterinary medicines as well as those for human use; the same speaker thought the limitation of pharmaceutical apprentices should be considered the work of the R.P.U. Another speaker hoped the Union had under consideration the promotion of a Pharmacy

Bill limiting the sole right of dispensing medicines to chemists and druggists. He was followed by one who inquired why the Union allowed unqualified (*sic*) traders to sell drugs to small shops, while another inquirer wanted to know what "process" the R.P.U. had to stop cutters in the trade. What strikes me generally about all these varied points which were raised at the meeting is that they were such as used to be familiar at meetings of the Pharmaceutical Society.

### This is an Appropriate Time

to offer a few observations concerning the two discordant pharmaceutical groups which played in opposition to each other in the recent parliamentary proceedings. In each of these parties there were manifestations calculated to cause the serious to grieve. The cause of fair treatment for the pharmacist is so good that it calls for no exhibition of "bluff" on the part of its protagonists. The requirements of the case only necessitate a full and painstaking account of what his representatives consider to be his claims for a fair consideration of the whole circumstances by Parliament and by Government departments having to do with pharmaceutical supervision. Anything in the way of antagonism between pharmaceutical cliques amounts to something "worse than a crime—it is a blunder." There must be, of course, a choice of methods as well as divergent views; but these should be composed without virulent words. I think a plea must be made for those who at present occupy the place of responsible elected representatives to see to it that their office does not, as frequently happens to men who feel their sense of power too acutely, blind them to a sympathetic view of their fellow pharmacists, whose desire for the doing of something is quite as urgent as their own. Now is the time for all good men to forget the exacerbations of the past year.

## American Notes

PARKE, DAVIS & Co. have acquired the surgical dressings business of the Bay Co., Bridgeport, Connecticut.

AMERICAN CRUDE DRUGS IN 1930.—American cultivators and dealers in crude botanical drugs, other than ginseng, partially offset the general price reductions in 1930 by increasing the quantity of exportations. A total of 4,704,000 lb., valued at \$700,000, was shipped abroad last year, exclusive of ginseng, compared with 4,450,000 lb., worth \$924,400, in 1929. Ginseng exports in 1930 totalled 203,000 lb., valued at \$1,877,000, while in 1929 about 234,000 lb., worth \$2,766,000, were foreign sales. Exports of crude drugs, exclusive of ginseng, to leading countries were:

	1929 lb.	1930 lb.
United Kingdom ...	1,281,600	1,588,000
Canada ...	1,251,000	1,035,000
Australia ...	83,700	99,000
Germany ...	643,000	829,500
France ...	431,200	439,600
Belgium ...	17,500	43,000

In accordance with an arrangement made in 1927, the eightieth annual meeting of the American Pharmaceutical Association will be held in Toronto, Canada, from August 22 to 27, 1932. This will be a joint meeting with the Canadian Pharmaceutical Association and the Canadian pharmacists are planning to make it an outstanding pharmaceutical event in the history of the two countries. It is announced that the Pharmaceutical Society of Great Britain and the British Pharmaceutical Conference will send a delegation of distinguished pharmacists. Dr. R. B. J. Stanbury, 43 Victoria Street, Toronto, secretary of the Canadian Pharmaceutical Association, will also serve as local secretary for the American Pharmaceutical Association, of which he and a number of Canadian pharmacists are members.

## Canadian Notes

BURROUGHS, WELLCOME & Co., have recently transferred their offices and exhibition rooms to 1,105 Sherbrooke Street, West (corner of Peel Street), Montreal. All members of the medical and pharmaceutical professions residing in or visiting Montreal are given a hearty invitation to visit the exhibition rooms.

SODIUM SULPHATE.—A correspondent writes that one of the most interesting and important developments of mining in Western Canada has been the activity in connection with the sodium sulphate deposits of Saskatchewan. Once looked upon as "alkali slough" of no economic value, these Saskatchewan deposits are already becoming of major importance. Shipments in 1930 totalled 31,571 tons, valued at £60,000, compared with 5,018 tons, valued at £13,000, in 1929.

JOINT CONVENTION.—The secretary of the Pharmaceutical Society of Great Britain recently wrote to Dr. Stanbury (secretary of the Canadian Pharmaceutical Association) to obtain the latest information of the proposed joint convention of the American and Canadian pharmaceutical associations. Dr. Stanbury, in his reply, stated that the date of the convention would be August 22 to 27, 1932, and the headquarters the Royal York Hotel, Toronto. This date, he added, was purposely arranged to permit those attending the joint convention to visit the Canadian National Exhibition, in Toronto, which opens August 26, and which is said to be the largest annual fair of its kind in the world. English pharmacists, who contemplate attending the convention and who wish to contribute papers, should send their names and titles of their papers either to the secretary, Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, or direct to Dr. Stanbury, 43 Victoria Street, Toronto 2, Canada.

## South African News

From "C. & D." Correspondents.

"The Chemist and Druggist" is supplied weekly to members of Chemists' Societies in South Africa.

### Amendment to the Wage Act, 1925

The following amendment to the Wage Act, 1925, Determination No. 35, applying to the Witwatersrand Area, was published in the Government Gazette of July 10, 1931, and is applicable to chemists and chemist assistants as from August 1, 1931:—

(1) The minimum wage that shall be paid—

(a) Chemist (qualified)—£30 per month; £6 18s. 6d. per week.

(b) Unregistered chemist assistant (means an employee in a chemist's shop who has served an apprenticeship to a chemist and whose employment in any such shop, including the period of apprenticeship, has been for not less than five years, but does not include a registered chemist)—£18 per month; £4 3s. 1d. per week.

### South African Pharmacy Board

EXTRACT FROM GOVERNMENT GAZETTE, AUGUST 28, 1931

The Minister of Public Health has been pleased, in the exercise of the powers vested in him by sub-section (4) of the section ninety-four of the Medical, Dental and Pharmacy Act, No. 13 of 1928, to approve of the sub-joined rules made by the South African Pharmacy Board under sub-section (2) (l) of the said section of the Act:—

The following acts by a chemist and druggist shall constitute conduct of which the South African Pharmacy Board may take cognisance under Chapter IV, Act No. 13 of 1928:—

1. Substituting or omitting ingredients in a prescription without consultation with and the approval of the prescriber.

2. Criticising the composition or merits of a prescription with a patient or commenting upon the professional ability of the prescriber.

3. Divulging to a third party the nature of a disease or ailment being treated except by the order of a court of law.

4. Dispensing or being in any way a party to the use of secret or cipher prescriptions.

5. Paying to a medical practitioner a secret commission or any material consideration in connection with a prescription.

6. Associating himself in partnership with an unregistered person or allowing his name and qualifications to be used as a cloak or cover for a person or persons, or body corporate, not entitled by law to carry on the business of a chemist and druggist.

7. Neglecting to keep poison or habit-forming drugs registers, as required by the law, or to make proper entries in the prescription book of medicines containing poisons.

8. Executing orders or compounding prescriptions directed to another chemist and druggist.

9. Dispensing prescriptions, on behalf of an unqualified person, for sale by such person.

### Brevities

At Durban, recently, a verdict of "Suicide by hydrocyanic acid poisoning" was recorded at an inquest on the body of Albert Craig Bland, a chemist's assistant. It was stated that deceased was worried because he had failed in his examination.

MR. VICTOR GUERNSEY ACTON, aged fifty-eight, 391 West Street, Durban, was found in a closed motor-car on the road near Kearsney Estate, North Coast of Natal, on September 27, unconscious and on the verge of death. The car had been parked there for two days. A police officer, who opened the car, found Mr. Acton in a dying condition on the floor at the back. He was taken to the Stanger Hospital, but died on the way.

## New Companies and Company News

**P.C.** means Private Company and **R.O.** Registered Office.

**HEDLEY PRICE, LTD. (P.C.).**—Capital £2,000. Objects: To acquire the business of a chemist, carried on by C. H. Price at 244 and 246 North Street and 158 West Street, Bristol.

**DELLER'S PHARMACIES, LTD. (P.C.).**—Capital £7,000. Objects: To acquire the business of a chemist and druggist now carried on by S. H. Lambshead at Paignton, Devon, as "Deller's Pharmacies."

**ROSSMORE NURSING HOME, LTD. (P.C.).**—Capital £4,000. Objects: To acquire the business of a surgical and medical nursing home and institute, carried on at Leicester Street, Southport, as "The Rossmore Private Nursing Home."

**BRITISH AMINO PRODUCTS, LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of wholesalers and retailers of chemists' sundries, patent medicines and foods and proprietary articles of all kinds, etc. **R.O.:** 2 Oak Hill Road, Surbiton.

**D. W. GREENHOUGH & SON, LTD. (P.C.).**—Capital £10,000. Objects: To acquire the business of chemical merchants, importers, exporters and dealers, etc., carried on as "D W. Greenough & Son" at Marlow House, Lloyd's Avenue, E.C.3, and elsewhere.

**B. MANN & CO., LTD. (P.C.).**—Capital £200. Objects: To acquire the business of Mrs. B. Mann now carried on by her at 252 Upper Richmond Road, Putney, as "B. Mann & Co.," and to carry on the business of hair and scalp specialists, beauty specialists, etc.

**ORALITE CO., LTD. (P.C.).**—Capital £100. Objects: To manufacture and deal in dental materials and products used by the dental profession; to acquire the trade mark "Oralite," and all assets connected therewith, etc. **R.O.:** Blackpool Road, Thornton, Blackpool, Lancs.

**CHEMAG METAL COLOURING CO., LTD. (P.C.).**—Capital £500. Objects: To carry on the business of oxidisers, bronzers, lacquerers, chromiums, electro, nickel and metal platers, chemical engineers, metallurgists, etc. Solicitor: T. K. Evans, Bearwood Road, Smethwick, Staffs.

**D. FERGUSON & CO. (GLASGOW), LTD. (P.C.).**—Registered in Edinburgh. Capital £10,000. Objects: To carry on the business of chemists, druggists and hair-dressers' sundriesmen, opticians, shop fitters, importers and manufacturers, etc. **R.O.:** 4 Glassford Street, Glasgow.

**WESTMINSTER LABORATORIES, LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of pharmaceutical, manufacturing and general chemists and druggists, manufacturers of and dealers in medicines, drugs and perfumes, etc. **R.O.:** 4-12 Palmer Street, Westminster, S.W.1.

**McIVORS, LTD. (P.C.).**—Capital £100. Objects: To acquire the business carried on at 334 Cricklewood Lane, Childs Hill, as F. A. Stamp, M.P.S., to adopt an agreement with Frances A. Stamp, and to carry on the business of chemists, druggists, drysalts, oil and colourmen, etc. **R.O.:** 334 Cricklewood Lane, Cricklewood, N.W.2.

**SMITH & SONS (NORWICH), LTD. (P.C.).**—Capital £30,000. Objects: To acquire the business of manufacturing chemists and druggists, chemists' and druggists' merchants and sundriesmen, and baking-powder manufacturers, carried on by J. de C. Smith the elder and J. de C. Smith the younger in co-partnership at Magdalen Street, Norwich, as "Smith & Sons."

**MELANOID, LTD. (P.C.).**—Capital £100. Objects: To adopt an agreement with the South Staffordshire Mond Gas Co. for the acquisition (*inter alia*) of the trade mark "Melanoid" and to carry on the business of manufac-

turers and distillers of tar, pitch and oils, paints, disinfectants, preservatives, moulding and other compounds, chemicals, soap and toilet requisites, etc. Solicitors: Johnson & Co., Birmingham.

**F. E. LEVER, LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of chemists, druggists, oil and colourmen, manufacturers of and dealers in medicinal, chemical, industrial and other preparations and compounds, perfumiers, herbalists, dealers in wine, spirits and mineral waters, makers of and dealers in soaps, cosmetics and toilet preparations, etc. **R.O.:** 151 Westbourne Terrace, W.2.

**SOLIDOL CHEMICAL, LTD.**—Accounts to September 30 show net loss of £3,666, against a profit of £276 for the previous year. After deducting £2,634 brought forward, debit forward is £1,032.

**G. B. KENT & SONS, LTD.**—Directors report they have decided, in view of the continued world depression, to defer payment of the half-year's dividend on the 5½ per cent. cumulative participating preference shares, due on January 1.

IN the Chancery Division Mr. Justice Eve, on the petition of the Holywell Standard Chemicals, Ltd., Finsbury Square, E.C., supported by another judgment creditor, made an order for the compulsory winding up of Solmar Soaps, Ltd. There was no opposition.

**COW & GATE, LTD.**—The twenty-second annual general meeting was held recently at the Lion Hotel, Guildford. In the course of his speech Mr. A. J. Suenson-Taylor (the chairman of the company) said: "Turning to the results there is little I think I need say. Because they appear satisfactory it must not be imagined that they have been easily achieved or that our margins of profit are high. For many years we have been building up a widespread sales organisation. The company is bearing the whole cost of opening up new markets which through the sales of Cow & Gate products provide an outlet overseas for English milk. Expenditure on Cow & Gate publicity is of direct benefit not only to the company, but also to the English farmers whose milk is utilised. I should like to say a few words about the policy of the Empire Marketing Board. We hear a great deal about reciprocal arrangements between different parts of the Empire, but I do not think it is fully realised here that in many parts of the Empire our Cow & Gate products have to face tariffs and prohibitions stiffer than in many foreign countries. Is it quite fair that the products of the Dominions, where such conditions prevail, should get the full benefit of the 'Buy British' campaign in this country? Until these conditions are modified I feel that part of the contributions found by English taxpayers might be devoted to a little more 'Buy English' propaganda." The accounts and balance sheet were adopted.

## Bankruptcy Reports

**Re Ernest John Sharman**, 91 Midland Road, Peterborough, Northampton, drug store proprietor, etc. The receiving order was made on December 10 on the debtor's own petition. The statement of affairs shows liabilities of £302 1s. 2d. and assets of £70, subject to preferential claims of £12 11s. 2d. The failure is attributed to "bad trade due to prevailing depression, lack of capital, and the profits from the business being insufficient to meet household expenses and interest on borrowed money." In October 1928 he became tenant of 91 Midland Road, Peterborough, and he purchased a grocer's stock-in-trade for £65. The business did not provide a living, and in 1929 the debtor agreed to purchase the premises for £1,000, of which £650 was obtained on mortgage. In consequence of the building society suing him for arrears of principal and interest the debtor filed his petition. The debtor became aware of his position about fifteen months ago.

# Corrosion of Lysol Containers

Abstract of an Investigation by Norman F. Rapps, B.Sc., A.I.C.

**R**ECENTLY two separate quantities of lysol were reported as being unfit for use, and on examination were found to be contaminated by some foreign substance.

## Case A

The lysol had become rather turbid in appearance, and there was a thick sediment of white amorphous sludge in the bottom of the container, a 10-gallon drum. On filtering some of the lysol, and diluting 1-10 with distilled water, a turbid solution was obtained, whereas samples of the same manufacturing batch of lysol, which had been stored in glass, gave perfectly clear dilutions with distilled water. The white sludge proved, on analysis, to be basic lead carbonate; and as the container was found to be lead-lined, experiments were undertaken to determine the resistance of metallic lead to corrosion by lysol, and by substances used in the manufacture of lysol. Strips of lead about  $10 \times 1.25 \times 0.4$  cm. were cut from a sheet of lead, and two series of experiments were set up.

In the first set, a weighed lead strip was placed in a test-tube ( $15.0 \times 2.5$  cm.), the tube filled up with the

measurements show the average depths of the grooves to be in the case of 5A  $\frac{3}{16}$  mm., and in the case of 4A,  $\frac{1}{2}$  mm. The test liquids used were:—

- (1), (2) and (5) Normal samples of three well-known brands of lysol.
- (3) Soap used in lysol manufacture, diluted with alcohol to obtain the same concentration of soap as is present in lysol.
- (4) Cresylic acid as used in lysol manufacture.

None of the test liquids contained any free alkali. In no case was there any precipitation of lead carbonate, but a separate experiment showed that with increased lead surface and free access of air, a precipitate is formed having similar properties to the sludge found in the drum of faulty lysol.

Lysol and cresylic acids readily dissolve the oxide-carbonate film which forms by atmospheric attack on the surface of metallic lead, and the corrosive action seems to progress in repeated steps. First a thin film of oxide is formed on that part of the lead strip exposed to the air, and this film is then dissolved by the liquid at the liquid-air interface, thus exposing a fresh lead surface, which again proceeds to form an oxide coating which is in turn dissolved. In the case of samples 5A and 4A, when the strips were first removed from the liquids and washed, the grooves were quite bright, and resembled freshly cut lead in appearance, while the lead above the liquid-air interface was heavily tarnished by atmospheric action. The lead which had been below the liquid surface (and all the surface of the lead strips except No. 3 in series I) was clean but with a "frosted" appearance.

## Case B

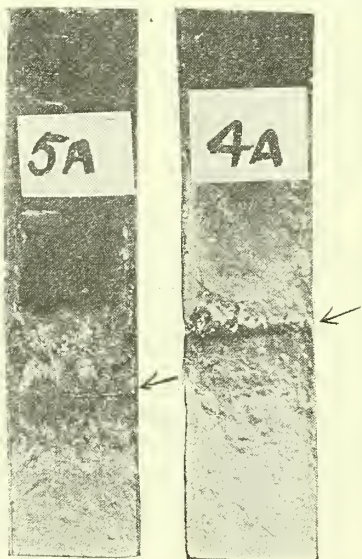
In this case the lysol had become turbid and there was a slight precipitation of white powder, which was identified as zinc carbonate. The container was a 40-gallon galvanised iron drum, and the galvanised inner surface showed marked local corrosion. The conditions of the second series of experiments with lead were repeated, using strips of new galvanised iron. After twelve days the strips were reweighed and the loss of zinc per sq. cm. computed. There was no sign of excessive corrosion at the liquid-air interface as had been the case with lead strips, but corrosion had taken place locally at spots scattered over the galvanised surfaces. The test liquids gave slight reactions for zinc, the intensity of the reactions being proportional to the loss in weight of the strip immersed in that particular liquid.

## Conclusions

Galvanised drums, though fairly satisfactory for storing lysol, are not to be preferred to steel. Corrosion of zinc is liable to take place at minute faults in the galvanised surface. Lead-coated drums should be carefully avoided, particular care being taken to avoid the combined action of air and lysol upon lead, such as would take place in a half emptied lead-lined drum of lysol. No lead piping or lead alloy measuring vessels should be used in handling lysol.

The above investigation was carried out in the analytical department of Graesser-Monsanto Chemical Works, Ltd., Ruabon.

**SOUTH AFRICAN MEDICINAL PLANTS.**—E. & S. Livingstone, 16 and 17 Teviot Place, Edinburgh, invite subscriptions towards the cost of publication of "The Medicinal and Poisonous Plants of Southern Africa," by J. M. Watt and Maria G. Breyer-Brandwijk. The book, comprising 300 pages and numerous illustrations, is offered to pre-publication subscribers at a special price.



test liquid, and corked, leaving only a very small air space between the surface of the liquid and the bottom of the cork. In the second series the weighed lead strip was lowered into the test liquid so that about half its length only was submerged in the liquid, and the test-tube was left open to the air. Both sets of experiments were allowed to stand for nine days, when the strips were removed from the tubes, washed, with careful rubbing to remove adherent incrustations, dried, and reweighed. In each case a loss in weight was recorded, while all the test liquids contained lead proportional in amount to the loss in weight of the strips which had been immersed in them. In the case of the first set of experiments, corrosion was comparatively slight, and was general over the whole lead surface; but in the case of the second series, most of the corrosion took place at the air-liquid interface, where a distinct groove was cut in the lead by the corrosive action. These grooves are shown on the accompanying photographs of the strips marked 5A, 4A, and microscopic

# Medicine Stamp Law

## Some Unsolved Problems

By William Johnston, Ph.C.

THE recent High Court decision in the case of the Attorney-General v. Lewis & Burrows, Ltd., has given rise to numerous speculations as to the meaning and bearing of certain points in the Medicine Stamp Acts. The object of this article is to discuss some of these—briefly, and with considerable reserve.

The only observation I wish to make at this stage upon Mr. Justice Rowlatt's judgment is that it is a very searching analysis of one of the most difficult Acts of Parliament with which a judge can be confronted. At more than one stage of the hearing he admitted that he was puzzled in trying to reconcile the conflicting arguments on *Farmer v. Glyn-Jones* with the wording of the "known, admitted and approved" remedies exemption. Having paid that tribute to the skill of the learned judge, I am bound to say that the mysteries of the exemption have not yet been all explained by either or both of the High Court judgments. As a matter of fact, the judges were not asked to explain them, and "there is still more light and truth to break forth" from it on some future occasion.

Whilst it is clear from the exemption itself, and from the recent judgment, that the thing which must be known and approved is the compound in question, it seems to follow as a logical conclusion that each of the ingredients must be known and approved. It is not a long step further to contend that, given, say, three or four ingredients of that description, none of them incompatible chemically, therapeutically or otherwise and mixed *secundum artem*, such a mixture must in the nature of things be a "known and approved" mixture. At any rate, if evidence is forthcoming that similar combinations of these four drugs have been known and approved by doctors and chemists for a reasonable time, it seems to me that the compound is within Mr. Justice Rowlatt's judgment. The only reason why mixtures are specially singled out in the exemption is that it is only compounds (not single drugs) which come within the general charge of duty.

### A Specious Theory

A new theory on the time question was propounded by the Solicitor-General. He said: "If Vapour Rub had been known for twenty-five years I might have said it was known within the meaning of the Act (though even then I might not); but a thing which has only been before the public since 1929 does not deserve to be included in that category." That consideration, though plausible, did not seem to weigh with the learned judge, for he accepted the evidence presented to him that the drugs composing Vapour Rub were all well known, and that at any rate similar mixtures of them had also been known in this country for seven or eight years, and for a longer time elsewhere. After all, time is not the only criterion of knowledge and approval.

Another question which is still unsettled, and will some day have to be settled, is the problem: "Who is the original or first vendor?" The Divisional Court in 1903 repudiated the Crown contention that it was Mr. (afterwards Sir William) Glyn-Jones. He bought his ammoniated quinine from a wholesale firm, so they were, at any rate, commercially, the first vendors of that particular quantity of tincture. But neither Mr. Glyn-Jones nor his supplier was, in fact, the first vendor of the compound. I contend that it never had a "first vendor" within the meaning of the Act. The formula was published to the world as soon as Bastick devised it, back in the 'forties. Mr. Justice Rowlatt, in effect, held that Messrs. Lewis & Burrows were in the same case as Mr. Glyn-Jones, even though they bought under contract with the Anglo-American Oil Co., Ltd., and though they provided that company with the prescrip-

tion which they used. That still leaves the point to be settled, another day: "What will the courts say when a 'known, admitted and approved' remedy is made by the chemist himself and sold under a correct title and reference number?" When that comes to be fought out we shall probably get down to bed-rock as to the real "inwardness" of the exemption. Mr. Hildreth Glyn-Jones (son of the famous Sir William) goes so far as to suggest that possibly "k.a.a." remedies never had "original or first vendors" within the meaning of the exemption.

### The Draftsman's Difficulty

Personally, I am being driven more and more to the conclusion that the draftsman of the exemption, though he did his best to carry out his instructions, was—well, not exactly successful. May not something like this have happened? The Chancellor of the Exchequer received a deputation from the chemists and apothecaries, protesting against the injustices in the 1812 Bill. They told him that if they sold compound tincture of rhubarb with a label on it giving the dose as 1 drachm for a stomachic and 1 ounce for constipation, that would render the tincture liable to stamp duty and rank it with quack nostrums. "Very well, gentlemen," said the Chancellor in effect, "I will see that such things are exempted from the scope of the Bill. Draftsman, draw up an exemption that will avert the evil about which the deputation complains." The draftsman, knowing nothing about pharmacy, but being very well primed with legal phraseology, set to work. He looked up the charge of duty, and found included, "Claim to secret in making," "claim to proprietary right in making," "letters patent" and "recommendation for ailments." He said to himself: "The deputation wanted known and approved medicines exempted, so I must fence off from the privilege all secret and proprietary and patented medicines. Then what about the recommended ones? I do not quite know how to deal with them comprehensively, but if I put in plenty of words, the judges will have to find out what the Chancellor really intended." And they did (partly)—nearly a hundred years afterwards. That this draftsman was a careless, happy-go-lucky sort of fellow is suggested in a phrase about the middle of the exemption. He meant to speak of the "prevention, cure or relief of any disorder," but what he did say was "the preservation, cure or relief of any disorder"—exactly the opposite of what he meant. In finishing the exemption, the poor man got "intoxicated with the exuberance of his own verbosity."

Here is another illustration which may shed some light on the Chancellor's intentions. Suppose a mixture of Epsom salts, magnesium carbonate and peppermint water; that mixture is well known in pharmacopoeias, medical practice and chemists' shops. If it were labelled: "Take an eighth part every four hours," it would be outside the charge of duty and there would be no need for any exemption to take it out. But supposing it were labelled, "Take an eighth part every four hours till constipation is relieved," it would come within the charge and it would need the exemption to take it out. If the exemption does not mean that it means nothing; it is a solemn farce. There is no first vendor of such a preparation, in the proprietary sense; and therefore, in the opinion of the Divisional Court in 1903, it would not be dutiable when sold by those entitled to exercise the privilege. In conclusion, may I congratulate the owners and editor of "Pharmaceutical Formulas" on the recent consolidation of the position of that most useful book?

## Births

Notices for insertion in this column must be properly authenticated.

**WATSON.**—At Woodcroft, Hale, Cheshire, on December 23, 1931, the wife of Lieut.-Col. Stanley Watson, D.S.O., M.C. (managing director of James Woolley, Sons & Co., Ltd.), of a son.

## Marriages

**EDWARDS—ELIAS.**—At Llansanfraid Parish Church, Bryncethin, on December 26, 1931, William Edwards, M.P.S., to Vivien, daughter of Mr. D. M. Elias, Bryncethin.

**ROBERTS—RISLEY.**—At Brindley Ford Wesleyan Chapel, Stoke-on-Trent, on December 26, 1931, Frederick Roberts, M.P.S., eldest son of Mr. F. Roberts, grocer and confectioner, to Florence, youngest daughter of Mr. J. Risley, colliery official.

**ROWLAND—COOK.**—At Christ Church, Hull, on December 25, 1931, Arthur Reginald Rowland, chemist and druggist, to Dorothy Cook.

## Deaths

**BAKER.**—At Cork, on December 24, 1931, Mr. R. S. Baker, chairman of Baker & Wright, Ltd., chemists, St. Patrick Street. Mr. Baker was prominently associated with the Cork Literary and Scientific Society and other local institutions.

**BLACKWOOD.**—At Muirkirk, on December 21, 1931, Mr. William Smellie Spence Blackwood, chemist and druggist. Mr. Blackwood qualified in 1893.

**CARLTON.**—At his residence, 15 Queen Street, Horncastle, recently, Mr. Herbert Carlton, J.P., retired chemist and druggist, aged seventy-six. Mr. Carlton was a son of the late Mr. W. P. Carlton, chemist and druggist, to whose business in High Street (now Carltons (Horncastle), Ltd.) he succeeded many years ago. He was a Commissioner of Taxes, a governor of Horncastle Grammar School, and for over forty years conductor of the Horncastle Orchestral Society.

**CONEY.**—At Ripley, Derbyshire, recently, Mrs. Ada Susannah Coney (*née* Wyatt), L.P.S.I. Mrs. Coney was the first lady who passed the Licence examination of the Pharmaceutical Society of Ireland; she was at that time (1897) with Hayes, Conyngham & Robinson, Ltd., Grafton Street, Dublin, and subsequently took a post in England.

**DOUTHWAITE.**—At 25 Linwood Road, Market Rasen, on December 17, 1931, Mr. George Liddle Douthwaite, chemist and druggist, aged eighty-five. Mr. Douthwaite started in business in North Wales, and was there several years; he then purchased a business at Newport, Shropshire, and after about ten years removed to Grimsby, retiring fourteen years later. Mr. Douthwaite is survived by two sons and two daughters. One son, Mr. D. G. Douthwaite, chemist and druggist, served his apprenticeship to his father, and is now in business at Coventry.

**DUNDAS.**—At 15 Polwarth Place, Edinburgh, on December 23, 1931, Mr. Robert Elder Dundas, chemist and druggist, 65 Dalry Road. Mr. Dundas qualified in 1904.

**GOWANS.**—At Edzell, on December 25, 1931, Mr. William Carnegie Gowans, chemist and druggist, aged sixty-eight. Mr. Gowans, who lived at Colombo, Ceylon, for a long period, was found dead with a gun by his side.

**JONES.**—The funeral of Mr. Jabez A. Jones, chemist and druggist, Cardiff, whose death was announced in our issue of December 26, 1931 (p. 755), took place on December 22. Prior to the interment a service, conducted by the Rev. Canon J. A. Lewis and the Rev. W. Percival Jones, was held at St. James's Church. Representatives of pharmacy present included Messrs. J. Lee Jones, S. B. Eason, S. H. Willis, F. Taylor, E. Poole, Albert Hagon, J. Murray, A. J. Harris, D. Harries, J. D. Jenkins, F. Edwards, O. Jenkins, F. Fox, D. Thomas, H. F. Davies, J. Mason, R. Loundry, Whitney Evans, W. R. Williams, E. W. Hill and Templar Malins. Mr. Caulcott (United Chemists' Association, Ltd.) and members of public and municipal bodies also attended. Among the many floral tributes were wreaths from the Cardiff Pharmacists' Association, the Cardiff Pharmaceutical Committee, and the Cardiff Branch of the Retail Pharmacists' Union.

**LESTER.**—On December 17, 1931, the wife of Mr. Henry Lester, chemist and druggist, Nuneaton, aged eighty-three.

**MCCKEY.**—At 126 Agnes Street, Belfast, on December 28, 1931, Mr. George Dyer McConkey, L.P.S.N.I. Mr. McConkey qualified as a registered druggist in 1894, and as a pharmaceutical chemist of Northern Ireland in 1926.

**METCALF.**—At his residence, Andover Road, Newbury, recently, Mr. Benjamin Metcalf, retired chemist and druggist, aged eighty-three. Mr. Metcalf was for many years a partner in the firm of Hickman & Metcalf, chemists, Market Place.

**PETCH.**—At Durham, on December 17, 1931, Mr. William Petch, for many years a representative of Holiday & Co., Ltd., wholesale and retail chemists, aged fifty-eight.

**PICKERING.**—At 76 Cambridge Street, London, S.W.1, on December 19, 1931, Mr. John Pickering, Ph.C., manager for Fox & Sons, Ltd., at their Bridport Place, N.1, premises. Mr. Pickering served during the recent war with the Liverpool Scottish. The interment took place on December 22, at Oswestry, Shropshire, where his parents reside.

**RILEY.**—At West Sculcoates, on December 12, 1931, Mr. Albert Eric Riley, chemist and druggist, 23 Low Gate, Hull, aged thirty-five.

**WALTON.**—At 298 High Street West, Sunderland, on December 21, 1931, Mr. Thomas Walton, chemist and druggist (Walton & Son, Ltd.), aged seventy-seven. Mr. Walton qualified in 1872 at the age of eighteen. His business in Sunderland (believed to be the oldest in the North of England) had been carried on by members of his family for several generations. His father, the late Mr. John Walton, was the apprentice master of Mr. John Humphrey, Ph.C., afterwards editor of "The Pharmaceutical Journal," and now a member of the Council of the Pharmaceutical Society. Mr. Humphrey received his early training in pharmacy from Mr. Thomas Walton, who was an enthusiastic photographer and had developed an extensive photographic business. He was also a great traveller, an extensive rose-grower, and a lecturer of repute. In his early days, soon after he had qualified, Mr. Walton took an active share in the educational work of the old Sunderland Chemists' Assistants' and Apprentices' Association. He conducted a class in materia medica, for which he was at pains to obtain specimens of the most recent drugs in commerce, and his enthusiasm carried him to the extent of saving his pupils the expense of purchasing text-books by supplying them with copies of his lecture notes, reproduced by means of a hectograph. He had great faith in the ability of the individual pharmacist to combat competition by multiple-shop concerns. He was president of the Sunderland Chemists' Association in 1906-07, and also held office as president of the Sunderland Photographic Association. Mr. Walton is survived by a son and a daughter.

**WORTHINGTON.**—Recently, Mr. Frederic Leslie Worthington, chemist and druggist, manager at Hemel Hempstead for Boots, Ltd., aged thirty.

## Personalities

MR. D. H. HACKING, M.P., has been nominated a member of the General Medical Council for five years in succession to Sir Edward Hilton Young.

MR. J. D. PENBERTHY, M.P.S., of Station Parade, Kew Gardens, has passed the Fellowship examination of the Spectacle Makers' Company, recently held in London.

MR. F. W. HEELY, Ph.C., Alford, Lincolnshire, had a fall near his shop on Christmas eve, resulting in a broken ankle and a dislocated knee. He is progressing in Alford Hospital.

MR. ALFRED R. WHEATLEY, chemist and druggist (Wheatleys, Ltd.), 54 Northgate Street, Gloucester, has been awarded the diploma of the Worshipful Company of Spectacle Makers.

MR. GEOFFREY A. N. HIRST, governing director of Hirst, Brooke & Hirst, Ltd., manufacturing chemists, Leeds, has been elected to the Grand Council and Executive Committee of the Federation of British Industries.

MR. HENRY POTTER, F.L.S. (Potter & Clarke, Ltd.), Artillery Lane, London, E.1, left Tilbury on December 31 on the "Llangibby Castle" for Mombasa and Zanzibar. Mr. Potter is returning to England via Natal and the Cape, and is due home on Easter Monday.

MR. W. PHILIP WANT, Ph.C., 194-200 Bishopsgate, London, E.C.2, asks us to express his sincere thanks to all those friends who have written to him on his retirement from the editorship of "The British and Colonial Pharmacist." Mr. Want hopes to reply to each individually as early as possible.

A LUNCHEON was held at the Exchange Station Hotel, Liverpool, on December 29, to celebrate the fiftieth year with Lamb & Watt, Ltd., rectifiers and compounders, of Mr. John Mullock (director and secretary). A smoker's cabinet was presented to Mr. Mullock by the staff, and a cheque on behalf of the directors, together with an illuminated address.

## Trade Notes

CARDBOARD BOXES.—Robinson & Sons, Ltd., Wheatbridge Mills, Chesterfield, invite inquiries for cardboard boxes.

IODISED THROAT LOZENGES.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, call attention, in our advertisement pages, to iodised throat lozenges. The prices quoted are attractive and, in addition, an order or contract for 56 lb. includes a free electric sign.

BRITISH INDUSTRIES FAIR.—One of the first announcements in connection with the British Industries Fair, 1932, appears in this issue. The announcement is made by The Association of British Chemical Manufacturers through the courtesy of W. J. Bush & Co., Ltd., manufacturing chemists, Ash Grove Works, Hackney, London, E.8.

DOANS' PILLS.—Foster-McClellan Co., manufacturing chemists, Mortimer House, 37-41 Mortimer Street, London, W.1, announce two new sizes of Doans' Backache Kidney Pills, as well as a reduction in the minimum value of best price parcels. Full particulars, together with an announcement of change of address, will be found in our advertisement pages.

NEW ANTIFREEZE.—With the possibility of extremely cold weather in the coming few months chemists have a good opportunity to sell satisfactory antifreeze preparations for motor-car radiators. Nomuf, a special concentrated solution for this purpose, has been introduced by Hirst, Brooke & Hirst, Ltd., manufacturing chemists, Leeds, at prices which should appeal to the average motorist.

MODEL FACTORY.—Macleans, Ltd., manufacturing chemists, Park Royal, London, N.W.10, call attention, elsewhere in this issue, to a new model factory situated on the Great West Road, Middlesex, and intended for the manufacture of tooth-pastes, shaving creams, packed goods, pharmaceutical products and toilet preparations. Inquiries, which should be addressed to Park Royal, are invited from houses abroad for the manufacture of these products in England.

CLIFTON INSTRUMENTS, LTD., Clifton Grove, Bristol, have sent us copies of their publications dealing with the "Matthews Oscillograph System" and the "Matthews Portable Electrocardiograph." Anyone interested in either of these instruments may inspect them at the showrooms of Watson & Sons (Electro-Medical), Ltd., 43 Parker Street, Kingsway, London, W.C.2, and copies of the booklets concerning them will be sent free on application.

SIGN NOVELTY.—Celex Products Co., 29 Water Lane, London, E.C.4, have drawn our attention to Crystalex signs, which appear to be well suited to the needs of chemists. The signs consist of designs, in colours if desired, worked on glass and covered, if necessary, with a second sheet of glass. Any design may be produced, and the resulting sign is impervious to weather, fadeless and may be illuminated. The signs are suggested for use in interior decoration, on facias, windows, door panels, wall panels and as slogans.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1932, p. 339.

(From "The Trade Marks Journal," December 16, 1931.)

- "ARGION"; for all goods (11). By Oligodyn-A.G., Burgstrasse, Glarus, Switzerland. 523,666.
- "MON-TRAL"; for metal sifter powder boxes (14). By Calmon & Neate, Ltd., 8 Gerrard Street, London, W.1. 525,566.
- "SLIMHELTH" over device of winged cap ("Slimhelth" disclaimed); for food substances (42). By Viking Vitamins, Ltd., 12a Priory Street, Monmouth. 525,540. (Associated.)
- "EMAUX"; for perfumes (43). By Parfumerie Houbigant, Société Anonyme, 19 Rue du Faubourg, Saint-Honore, Paris. 524,785.
- "STONEHENGE" over picture of Stonehenge; for perfumery, etc. (43). By Stonehenge Woollen Industry, Ltd., 51 High Street, Salisbury. 526,962.
- "CRÈME LA-NE-TA" on device including dancing girl and spray of flowers (flower device disclaimed); for depilatory cream (43). By Lancta Products, Ltd., Audrey House, Ely Place, London, E.C.1. 526,171. (Associated.)
- "GIRASET"; for hair waving preparations (43). By Xavier Giralt, 13 Newton Terrace, Glasgow, C.3. 527,027.
- "DAPPER"; for hair preparations (43). By J. Glendinning, 12 Waterloo Place, Londonderry, N. Ireland. 527,147.
- "DAMOSOL"; for perfumery, etc. (43). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, E.15. 527,184.
- "FLORENCE PRO-PHY-LAC-TIC"; for tooth brushes (50). By Pro-Phy-Lac-Tic Brush Co., 221 Pine Street, Florence, Northampton. B 520,394.

(From "The Trade Marks Journal," December 23, 1931.)

- "NILRO"; for wood preservatives (1). By G. Lillington & Co., Ltd., 69 High Holborn, London, W.C.1. 526,463.
- "SHELL BRAND" under picture of shell; for chemicals (1). By Shell Company of Rhodesia, Ltd., St. Helen's Court, Great St. Helen's, London, E.C.3. 523,762. (Associated.)
- "FELZO BRAND"; for chemicals (1). By A. G. Turney Engineering Co., Ltd., Tyne Street, Felling-on-Tyne, Co. Durham. 521,121.



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### DISEASES AND REMEDIES.

Now in its sixth edition (March, 1931). It has been carefully revised by an experienced medical practitioner and parts of the book have been rewritten. Price 5s., by post 5s. 3d.

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### PRACTICAL METHODS OF URINE ANALYSIS.

This department of chemistry is one which those behind the drug counter can profitably cultivate. The object of this book is to give chemists exactly the information they want on the subject. The book is written by a working pharmacist who is expert in the subject, and has been revised by a M.B. Lond. (3rd Edition.) Price 3s. 6d. net, by post 3s. 8d.

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## Information Department INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

B/2912. Crestosine	N/2412. Nurse Daniel's tablets
E/2312. Lavalac or Lave-saloe	B/2912. Oralite denturo 1025
B/2912. Lloyd's cold cream	L/2112. Splenocrin

# THE CHEMIST AND DRUGGIST

VOL. CXVI JANUARY 2, 1932 NO. 2708

## The Need of To-Day

As we pass through the door that marks the beginning of another year we become aware of the dark night which has preceded it. The black bats of the night—the Pharmacy and Poisons Bill, the threatened legislation in connection with proprietary medicines, price protection and other matters—have flown, and we may prepare ourselves to meet the future. The burdens that will have to be borne, not only in our own land but in various parts of the Empire, the Continent and the United States, are greater than ever before. Suggestions were made that the Christmas festival should not be kept last month. But it is a good thing that Christmas, with its joy and the new vigour which it gives, immediately precedes the New Year with its fresh responsibilities. Our New Year's greeting is intended as a call to pharmacists to be up and doing. We must insist that personalities be cut out, and that sects and cliques be dispensed with. Every man who says the world is mad is making its insanity more possible. We need a united front, not only to deal with legislation, but also for our own sakes. True optimism is essential. An optimist may be defined as one who finds an opportunity in every difficulty, and a pessimist as one who finds a difficulty in every opportunity. The difference between the man who succeeds and the man who fails is energy—undaunted determination. It comes back eventually to the individual. As the late President Wilson once said, "No country is greater than its rank and file." It is the same in pharmacy.

## Better Than Our Promise

Let us determine in our business relationships to be better than our advertising, in courtesy and service always giving customers more than they expect. It will create true goodwill and act as a big business builder. Courtesy and service are the translation in business life of courage and cheerfulness. In spite of the depression which has beset us during recent years, the application of these characteristics will enable many a shop to retain its custom, and even to increase it. They are the things which remove the rust from the wheel of life. Some pride themselves on their bluntness, but bluntness need not be rudeness. As a nation, we are always seeing "ominous signs" on the horizon. We are inclined to take our opinions from newspaper headlines. But we must face facts. We should not lose heart even if things are not so good as we should like them to be. Men of thought in all generations have seen these so-called "ominous signs" and have thought the end of civilisation was near. It was not so, and the British grit and determination of the past helped

them by united effort to pull through. So in the future. Income tax is a topical subject for humour, both in song and speech. It is a good thing we can laugh at ourselves and our difficulties. So long as we retain our sense of humour, so long shall we retain our sanity. We owe a duty to our fellows to be cheerful and to see the brighter side of things. The reduced value of sterling can be made a useful weapon. The emergency tariffs that have already been imposed can be turned to advantage; if additional tariffs come along, they can be made advantageous also.

## True and False Economy

"Economy" is one of the over-used words of to-day. Economy is preached in all kinds of ways but rarely defined. A good definition of economy, we think, is "wise spending." To keep one's money in the traditional stocking is now, as it always was, the worst possible use to which money can be put. To keep it in a bank is a little better, for it can be used to help business; but to put it in circulation with care and discrimination is the best use of all. The troubles of to-day are the growing-pains for the greater England of to-morrow. We must be prepared to accept the hint of each new experience. There is no need to sell a shillingsworth of goods for ninepence to attract business. The inner light of confidence is priceless. Every pharmacist may with advantage ask himself at this time: "What are my outside interests?" The reply may be, "I have no time, after a twelve-hour day in business, to consider outside interests. I devote myself to business; surely that is enough." We are not so sure that it is. Where does the business come from? Outside. If we are not interested in our own town and its difficulties, can we expect our town to be interested in us? If we are not interested in the larger sphere of national affairs, can we expect to be true citizens of a great country? Are we interested in world affairs, or are we content to stand idly by while others are making history? It is well that we should each have his outside interests, taking a more active part in the affairs around us, impressing our ideals and personality into the public service. "Yet they, believe me, who await no gift of chance, have conquered fate." The future will be no bed of roses for either principals or assistants during the coming year. It needs optimistic determination to look for the bright side and to realise that things might have been considerably worse but for the courage of others. We have been pleading for courage and cheerfulness and their outward forms, courtesy and service. If success is to be achieved, loyalty to each other will be demanded from employers and employed. We must work hard, not relying upon any wonderful turn of fortune's wheel, but putting in plain, steady work in addition to careful thinking. A man must either be efficient, one who creates with care and certainty, or automatic, the "robot" of life. Let us greet the year 1932 with a courageous smile.

*For all our readers we wish a happy and prosperous New Year.*

# A New Year's Message

This article is specially contributed by Mr. J. F. Tocher, D.Sc., F.I.C., Ph.C., F.C.S., Aberdeen. Dr. Tocher was President of the British Pharmaceutical Conference in 1909.

IT is such a long time since I practised pharmacy that I am more or less out of touch with present-day conditions. When I hear my pharmacist friends talking about their affairs, their language seems strange to me. I realise I am living in the pharmaceutical past and that I have a lot to learn about modern pharmacy, its intricacies and responsibilities.

But I can think of myself as a young lad of sixteen walking a distance of four miles on a bonnie summer morning to start my training in a pharmacy—I ought to use the old language—a druggist's shop. I must have been of an inquisitive nature. I pestered the assistant with questions about the crude drugs I found in the gilt-labelled drawers. When I came upon a drawerful of brown solid material he told me it was "black sugar," the term I believe still used to describe liquorice extract in sticks. I doubted the statement, and was invited to taste the stuff. I did, to his great joy, for it was a drawerful of Barbados aloes! Leeches were kept, and it was my duty and pleasure to see that the water was regularly changed. The mention of leeches brings to my mind a case where they were prescribed but not used by the patient. A son of Anak, from one of the outlying glens, had found comfort from a scolding wife by getting fu' at a local fair. Alas! those fairs now no longer exist. A debate with a neighbour on the way home terminated in his favour and two black eyes. The good wife had to call in the doctor, and he prescribed leeches. A few days later the physician called to see how his patient was getting on. At the door he met the good wife and asked how the leeches had done. "Leeches!" said she. "What use would leeches be to my man! I just put the ferret on to him."

## A Shop Library

Christison's "Dispensary" was a gold mine to me. It was well-thumbed when I first opened it, and I added evidence of frequent reference to its illuminating contents. A pocket materia medica and the B.P. completed the library. My attempts, in a lumber room above the shop, at chemical and pharmaceutical processes were not always successful, but I have never forgotten the facts I established. I was early privileged to dispense, and later was entrusted with the preparation of galenicals under the supervision of my senior. I repaid him for his "aloes" service to me by one day allowing a gentle shower of "dolichos pubes" to settle

on his neck while he was busy with a pestle on a batch of rhubarb pills.

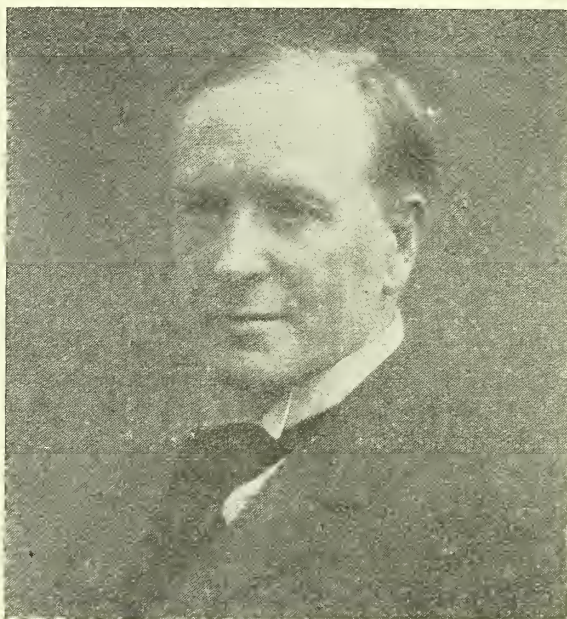
What a change in the scope and nature of the Qualifying examination in my day, compared with the examination of to-day! I had taken the University preliminary, seen a few laboratory experiments at Gordon's College, Aberdeen, and got wisdom instilled into me at the Royal Infirmary, Edinburgh, under Arthur, before appearing at York Place. The experience of the one day's examination was of a stimulating and exciting character. No waiting to learn your fate. Your name is called. What appeared to me to be a benevolent jinn shook my hand and sent me out into the street in a state of ecstasy I have never experienced since. My later experiences at Marischal College, Aberdeen, and at Mason College, Birmingham, were drab and tame compared with that thrilling event.

## At Peterhead

Peterhead is an East Coast town, built of granite, notable in having a Harbour of Refuge, the construction of which began when I went there in 1886, and which the inhabitants believe will be finished before the end of the world. It is also notable in housing a number of Scottish citizens, distinguished for their predatory habits, many of them undeservedly unhung. They reside in

great comfort across the bay after the manner of Tartarin in the famous prison of Tarascon. Along with my *confrères*, it was my privilege occasionally to see that the convicts were furnished with the medicaments necessary for their physical welfare. I think their spiritual welfare was equally cared for, but I cannot vouch for the results. We succeeded in keeping the officials free as far as possible from official inquests. No better home from home than Salthousehead could have been selected as the Convict Prison for Scotland. Every day the inmates see a symbol of freedom in the Meethill Monument (erected to celebrate the reform of 1832), the mighty waves dashing against the harbour walls, symbolic of their own restlessness, and the peaceful town of Peterhead inviting them to mend their ways as the only hope of true happiness.

The professional and business side of a pharmacist's life has been so often described that I need not touch on it. The humorous and often compensating side has been neglected. One could describe a business experience of forty years ago, but it would interest present-day pharmacists little and help them less. The hours



MR. J. F. TOCHER, D.Sc., F.I.C., Ph.C., F.C.S.

then were long—from 8 a.m. to 9.30 or 10 p.m., and 11 p.m. on Saturdays. Sunday in the early days was like a week-day.

During the summer, the herring fishing brought an increase in the population with increased activities for medical man and pharmacist. I remember having to supply medicaments six times to different households in one night between 11 p.m. and 5 a.m. The experience remains vividly impressed on my memory from the fact that I had not only to dispense many prescriptions that night, but had also to waken up a hotel proprietor in order to get some brandy which the medical practitioner had evidently and benevolently thought necessary for his patient. The weary proprietor supplied the medicament (?), at the same time expressing lurid opinions about the medical profession, pharmacists, wild Irish fishermen, and the wayward human race generally. He also gave vocal evidence of an accurate knowledge of the licensing laws, but I got the brandy! When I asked to be refunded for my outlay and services, the patient's brother pleaded an empty pocket. I gave him a plain description of his character and sent him off to his suffering brother. I had retired once more to bed at 4 a.m. when the night bell rang again. I found at the door the great burly form of my Irish fisherman. Holding out his hand he said in biting tones, "Here, sorr, here's yir mōney!"

But this is all irrelevant—away from the point. You asked me to give you and your *clientèle* a cheery New Year message. Here it is: Keep a stout heart to a "stey brae." You have your trials, your difficulties, your crosses to bear; but you are better educated, better paid, and better off than your fathers were. You have a highly responsible duty to perform to the public, and

I have frequent occasion to know that you do it very well.

*Dr. James Fowler Tocher is one of the few Conference presidents who have gained distinction in the wider spheres outside pharmacy. He served a four years' apprenticeship to Mr. William Troup, chemist, Rhynie, and, after gaining further experience in Glasgow and Aberdeen, passed the Qualifying examination in 1886. In October of the same year he commenced business at Peterhead. After two years he went to study at Birmingham for the Associateship of the Institute of Chemistry; the examinations for this and for the Ph.C. diploma were passed at a brief interval. In 1891 he devised a test for the presence of sesame oil in olive oil, following this with an investigation of sesame oil and related subjects extending over three years. At the same time he was establishing an analytical practice, and eventually he found it desirable to dispose of his business. Dr. Tocher commenced, in 1895, an important series of anthropological studies which resulted in the publication of several monographs. He was at one time a frequent contributor to the scientific proceedings of the British Pharmaceutical Conference; his presidential address at the Newcastle meeting in 1909, a survey of educational and other problems in pharmacy, is remembered as a model of lucid exposition. By this time Mr. Tocher (as he then was) had already passed the examination for the Bachelor of Science degree of Aberdeen University; his doctorate followed in due course. To his scientific attainments he adds a knowledge of other kinds of literature that helps to account for his ascendancy in his profession.*

## Manufacturers' Opportunities

WITH so many foreign proprietary articles now subject to import duty and the Buy British state of mind of the public, home manufacturers have been presented with an opportunity which should not be allowed to slip away. British manufacturers, particularly those who make toilet specialities, should survey the field of possibility, and, as a prelude to deeper research they should visit a half-a-dozen chemists' shops at random and see what imported preparations are in evidence, and should ask the country of origin of the best selling toilet lines. If they discover that most are made abroad it would be advisable to study the cause of their popularity. In most instances they would discover that price was not the main factor; but good marketing. British manufacturers can make, and probably do make, equally good or better products, but evidently there must be something wrong with the manner of presentation, or they are only telling the trade or advertising to the public in a language they do not understand. Many manufacturers expect too much from the chemist. He has not time to receive or dispense lengthy explanations of the merits of products; he becomes less and less attracted by the offer of extra profit in return for his active co-operation, realising that it is uneconomic to lock up money and display space on articles that the public are not favourably acquainted with. On the other hand, when dressing his windows and counters he is prompt to give prominence to smart well-advertised lines. The best advantage therefore cannot be gained from the present situation without the help of advertising. Many non-advertising manufacturers of good products would be advertising now had they sufficiently studied the subject of advertising. Many who have advertised and regretted their action are probably the victims of bad or unorganised advertising. A successful advertising campaign is broadly as follows:—

1. The right product, and provision for its quality to be rigorously standardised.
  2. A trade mark that is dignified, registrable and which would be difficult for even an uneducated person to mispronounce.
  3. The right kind of advertising consultant.
  4. Co-operation with marketing affairs.
  5. The right kind of advertisements, show cards, literature, etc. The best can only be conceived by combining the manufacturer's knowledge of his product with the advertising man's knowledge of public appeal.
  6. A sales campaign planned to assure steady factory production, with adequate, although not wasteful, stocks available from the start.
  7. The objective territory over which the goods are to be advertised to be of dimensions that can be economically taken full care of, and in which efforts can be thoroughly consolidated.
  8. The trade terms and service of the kind that is likely to assure sympathetic reception.
  9. The salesmen to be fully acquainted on the merits of the campaign and to be sufficiently trained to put forward their arguments speedily, convincingly and courteously.
  10. The manufacturer to watch, and, if need be, amend the campaign not only from his desk, but he should strengthen his views by regular observation in the field.
- If those who have lost faith in advertising will examine this sequence they will admit that the omission of one of the precautions probably caused failure, and that those who have hesitated might have acted differently with such a formula to guide them. The new tariffs and the new patriotism have presented a golden opportunity, but foreign competitors are not giving in. They are equipping themselves to meet their new difficulties, so that it is necessary to act courageously, wisely and promptly.—W. H. C. (18/12).

# Pharmaceutical Society of Great Britain

## Evening Meeting in Edinburgh

THE second evening meeting of the session was held at 36 York Place, Edinburgh, on December 18, Mr. J. B. McVittae (chairman of the Executive of the North British Branch) presiding. The following communications by Mr. D. B. Dott, Ph.C., F.I.C., F.R.S.E., were read:—

### Ethylmorphine Sulphate; Codeine Sulphate; Cotarnine; Cotarnine Hydrochloride

#### [ABSTRACT]

#### ETHYLMORPHINE SULPHATE

WHEN 0.658 gm. of ethylmorphine sulphate was dried at 115° C. it weighed 0.586 gm. This, when exposed to the air at ordinary temperature for six days, had increased to 0.659 gm., the difference in weight indicating 11.07 per cent. The percentage of water required by  $\text{EtM.H}_2\text{SO}_4 \cdot 5\text{H}_2\text{O} = 11.05$ . The experiment was repeated both in the air of the laboratory and that of the balance-room, with the same general result. There is no tendency to effloresce, and the dehydrated salt reabsorbs moisture from the air to its full amount of hydration. All the combined water is lost at a temperature under 100°. When a tube containing the hydrated salt is plunged into hot glycerin at 200° the substance immediately liquefies. As in the case of several other alkaloidal salts, more satisfactory and constant results are obtained by precipitating the base, and determining its melting point, which is about 119°. This is much lower than that of codeine. Ethylmorphine also differs in the reluctance with which it parts with its combined water, requiring a temperature of 105°–110° to dehydrate, at least in any reasonable time. At 120° it darkens, and loses more weight than is required for the one molecule of water, apparently due to decomposition. Codeine quite readily parts with its water under 100°.

#### CODEINE SULPHATE

WHEN 0.735 gm. was dried at 98° it gave 0.6525 gm. It was then exposed to the air at ordinary temperature for seven days, giving 0.7045 gm. After fourteen days the same result was observed. The loss on drying indicates 11.22 per cent. The increase in weight of 7.23 per cent. agrees well with three molecules of water, which requires 7.20. 1.2635 gm. of a fresh sample was exposed in the air at ordinary temperature for three days, and then weighed 1.2645 gm. This was dried at 98°, becoming 1.1195, indicating a loss of 11.46 per cent. These results show that crystallised codeine sulphate does not effloresce in an average atmosphere at ordinary temperature, and that the dried salt gains weight by exposure only up to three molecules, whereas the corresponding ethylmorphine salt gains its full amount of five molecules. Codeine phosphate crystallises from water with its full two molecules of water, but from 90-per-cent. alcohol with only a fraction of that proportion. When a substance is known to be either a codeine or an ethylmorphine salt, it may be distinguished by the following test:—0.1 gm. is dissolved in 8 c.c. of water, four drops of liquor potassæ added, and the solution shaken. In the case of codeine the liquid remains clear, if ethylmorphine a crystalline precipitate speedily forms. The marked difference between the behaviour of ethylmorphine and its salts compared with methylmorphine and its salts provides a good example of the difference that the addition of  $\text{CH}_2$  in a series may make.

#### COTARNINE

WHEN 0.6 gm. of the purified base (cotarnine) was titrated with N/10 hydrochloric acid, using bromo-

phenol blue as indicator, it required 25.3 c.c. for neutralisation, equivalent to 0.599 gm. of  $\text{C}_{12}\text{H}_{15}\text{O}_3\text{N} = 99.83$  per cent. After drying over sulphuric acid for a week a melting point of 130° (with evident decomposition) was indicated. The same substance in a drying oven at 98° for seventeen minutes indicated a melting point of 124°. Exposure in a water bath for fifteen minutes always lowers the melting point of cotarnine. In the case of cotarnine the melting point should be quickly determined. Cotarnine is generally regarded as anomalous in containing water which cannot be removed, while the dried hydrochloride is anhydrous. But if the latter is regarded as cotarnine chloride and the base as cotarnine hydroxide, there is nothing anomalous, but just what would be expected. Solutions of the salts give no precipitate with sodium carbonate or ammonia, but require caustic alkali, which agrees with the behaviour of methylmorphine chloride. The hydroxide precipitated from this salt is likewise incapable of yielding water without decomposition. Even when well purified and answering all tests for absence of other alkaloids and probable impurities, cotarnine may melt at a temperature slightly under 130°. The result may be due to variation in the physical state. The fact that the base slowly melts at a temperature under 100°, with marked darkening in colour, suggests oxidation. There is room for further investigation, including determinations in an inert atmosphere. In any case, there is an element of uncertainty about the melting point of a substance which decomposes at the same temperature.

#### COTARNINE HYDROCHLORIDE

THIS note on cotarnine hydrochloride was suggested by the inadequate information given by the B.P.C. regarding the salt. 1 gm. of the base dissolved with its proportion of hydrochloric acid, evaporated to some extent at 60° C. and then allowed to dry to a powdery state at ordinary temperature yielded 1.264 gm., equivalent to 126.4 per cent. 1.283 gm. of cotarnine converted to hydrochloride and the salt dried in air at ordinary temperature gave 1.628 gm., equivalent to a yield of 126.8 per cent. 1.063 gm. of the salt dissolved in water; nitric acid and silver nitrate added, and the mixture heated, gave  $\text{AgCl} = 0.1296$   $\text{HCl} = 12.19$  per cent. in the alkaloidal salt. 1.064 gm. of hydrochloride (air dry) after three and a half hours at 70° = 0.912, then at 98° to constant weight = 0.905, indicating a loss of 14.94 per cent. The results are conclusive that the fully hydrated salt contains  $2\frac{1}{2}$  molecules of water, as we express it for convenience, more accurately, five molecules to the double molecule of salt  $2\text{C}_{12}\text{H}_{15}\text{O}_3\text{N.HCl} \cdot 5\text{H}_2\text{O}$ . The published statements as to melting point vary greatly.

#### Discussion

MR. RUTHERFORD HILL said on one point there would be agreement. Communications such as these, though short, involved a large amount of very detailed careful work for which they were much indebted to Mr. Dott. Another point brought out in the papers was the importance of knowing from what solvent a substance had been crystallised, whether water, alcohol, ether or chloroform, as the percentage of water of crystallisation of the same substance might vary according to the solvent from which it was crystallised.

ON the motion of the CHAIRMAN, a cordial vote of thanks was awarded to Mr. Dott.

MR. DOTT, in reply, said one practical point in regard to percentage of water of crystallisation was the fact that occasionally purchasers complained that the article supplied did not correspond with what were really erroneous statements in the standard books.

The next communication was by Mr. Donald G. Mackenzie, chemist and druggist, on:—

### The Practical Application of Botany in and Around the Pharmacy

[ABSTRACT]

WHILE engaged in a search for conjugating spirogyra, I became so fascinated by the wonderful yet simple structure of the fresh-water alga that I was induced to make cryptogamic botany a special study. Most of you will have noticed fungoid growths appearing in your galenicals. You will find that the corks used for closing bottles or jars are almost always charged with spores of various fungi, mostly of the *Penicillium* variety; you can cultivate many varieties on suitable media. We used to find any preparation containing an organic acid very liable to grow fungi. I have found that a 1-inch plug of cotton-wool is the best stopper for such preparations. Certain concentrated solutions used for dispensing develop growths. I remember trying the cotton-wool plug in a winchester of lavender oil, which had developed a terebinthinous odour; this bottle was put away for some time, and when opened again its perfume was restored.

A talk with an angler on the food of fresh-water fish led to my getting my net and collecting bottles into use. By the aid of a lantern and several microscopes lent by Dr. Ellis (Glasgow Royal Technical College) I dared the "lions" of the angling world. Starting with the diatomaceous growth, I tried to give a description of the conditions on which depends the food of fresh-water game fish. When I said that trout did not live on flies, that is flying insects, I brought down their wrath on my head, which was accentuated when I explained that the fish did not rise to a fly because it was hungry and wanted to eat it, but because it was well filled with water worms, larvæ, and other of the herbivore, that it wanted some exercises or sport, and that the fish took the fly for the very same reason that the angler took the fish. I have had to examine hundreds of stomachs of trout, and I still find no reason to alter the opinion I formed from the deductions based on a study of botany. Bowling greens and golf courses suffer from fungoid growths. One green, on which as a botanist I was called upon to pass an opinion, suffered from a severe attack of the fairy ring fungus, which gives the characteristic dark green ring with lighter colour in the centre. Treatment was by bisecting the ring with spade cuts and pouring in Bordeaux mixture, which appears to destroy the continuity of the ring, and ultimately the fungus dies out.

If your business is in, or near, a housing scheme, you can use your botanical training to cater for your gardening customers; a display of lantern slides in the window will evoke the interest of your enthusiastic horticultural customer and secure his respect for your knowledge. Medical students are not taught pharmacy or therapeutics as they ought to be, and when they qualify they are at a loss as to what to prescribe, or why they should prescribe it. Botanists with a knowledge of zoology could talk just as learnedly of assimilation, nutrition, absorption and elimination as the specially "crammed" representative, and be always on the spot to suggest a formula to supply the particular deficiency which is causing trouble. If we are to regain what is, I think, our proper place in the estimation of the medical profession and the public, let us dig up our buried talent, put it out to usury, and in time we will reap a full reward.

### Discussion

Mr. J. J. BLACKIE said they were tempted sometimes to regard botany as a subject for examination purposes only. Mr. Mackenzie had shown that it could be applied in a retail pharmacy. The subjects of the Preliminary Scientific examination were so interrelated that it was essential to have an adequate knowledge of all of them in order to study intelligently matters relating to drugs and their active principles.

Dr. TAIT said he was impressed by Mr. Mackenzie's great powers of observation and the practical application of scientific knowledge. His observations on

development of moulds in galenical preparations was of particular interest. He had observed what struck him as a most unusual development of fungoid growth on the cork in a bottle containing liquor arsenicalis. He had imagined that the arsenic would have inhibited any such development. Another case was a winchester of cinnamon water in which there was an obvious development of fungoid growth, so that the water acquired a distinct odour of benzol, which he had ultimately traced to cinnamic acid decomposed by the fungoid growth.

Mr. TAINSH said he was particularly interested in the reference to the development of fungi, which he had experienced in connection with a solution of ammonium acetate.

Mr. HARLEY said they had ascertained that Mr. Mackenzie was one of those men who got the most out of life, whether in work or in play. His reference to oil of lavender reminded him of the time when it was customary for chemists to invest in large stocks of drugs. It was a new point to hear of oil of lavender losing its characteristic odour and being restored by removal of the cork. Mr. Mackenzie's remark about agricultural and horticultural requirements and insecticides was well worth bearing in mind. If pharmacists took up this work to a considerable extent they might have less demand for licences for the sale of agricultural and horticultural poisons.

Mr. KELLY said, knowing that fish took to different flies at different seasons of the year, he wondered sometimes how they were able to distinguish these flies even in the dark. Regarding spore-infested corks, most of them had prepared infusion of digitalis. They might have observed also that if the surplus infusion was allowed to stand for a week or ten days it acquired an offensive odour and was probably loaded with bacteria.

Mr. HUNTER thought it was to be regretted that pharmacists did not take up the study of botany more thoroughly than they did.

Mr. PERRINS said Mr. Mackenzie had emphasised the use of the microscope, and he thought that was the line in which they were most likely to acquire a real interest in botanical studies. It was one thing to look through the microscope at a slide prepared by some other person, but if they took the trouble to make their own sections they would find a greatly added interest. In regard to the use of cotton-wool plugs, his experience was that it was a great advantage to cover the cotton-wool plug with a piece of very fine gauze so as to prevent small pieces of cotton-wool dropping into the solution. Even in the use of the cotton-wool plug, spores might drop from the cotton-wool into the liquid, so that they might have the same trouble as arises from the use of corks.

Mr. RUTHERFORD HILL said he deprecated the too common statements as to the unimportance and uselessness of botanical studies for the pharmacist. By some misfortune the study of botany had been looked at from quite a mistaken point of view. Without a knowledge of botany it was impossible properly to appreciate many matters that arose in connection with materia medica. It was also a distinct asset to the retail pharmacist, to whom the public had got into the custom of resorting when any difficulties arose. Not a few chemists carried on a seed business, and they certainly had an immense advantage over the ordinary seedsmen in intelligently recommending the various horticultural insecticides.

The CHAIRMAN, in moving a vote of thanks to Mr. Mackenzie, said a very interesting discussion had arisen over Mr. Mackenzie's rather unusual type of paper. He felt sure that those who took up the study of botany would find it a most absorbing hobby and would assuredly find some practical means of making it remunerative.

Mr. MACKENZIE, in reply, said with regard to bacterial development in infusion of digitalis, they had an example of what could be easily found in an infusion of hay. After standing some time such an infusion would be found loaded with living organisms. The educational value of a study of botany could not be called in question. He had never observed any instance of spores getting through the cotton-wool plug.

On the motion of Mr. HARLEY, a vote of thanks was accorded the chairman.

# Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

## Name Removed from Panel

The following statement, dated December 21, 1931, has been issued from the Ministry of Health:—

The Minister of Health having read and considered the Report made by the Inquiry Committee constituted by him under Part VII of the National Health Insurance (Medical Benefit) Consolidated Regulations, 1928, to inquire into the case of Mr. Claud Philip Edward Fuller, of Aylesbury Street, Wendover, Buckinghamshire, and having considered and taken into account the evidence as to Mr. Fuller's personal character and professional standing, submitted by him under Article 66 (2) of the said Regulations as applied by Article 72 thereof, is satisfied that the continuance of Mr. Fuller on the list of persons supplying drugs or appliances would be prejudicial to the efficiency of the service, and accordingly, in pursuance of Section 24 (5) (b) of the National Health Insurance Act, 1924, and of all other powers enabling him, has decided to remove and does hereby remove Mr. Fuller's name from the list of persons supplying drugs or appliances for the area of the Buckinghamshire Insurance Committee as from and including January 1, 1932. The Minister has further considered the question of the costs of the Inquiry, and hereby directs that the costs of the said Insurance Committee shall be paid by Mr. Fuller, such costs to be taxed by the Minister.

## Local Reports

### ENGLAND AND WALES

**Middlesex.**—At a recent meeting of the Middlesex Pharmaceutical Committee the chair was taken by Mr. Chas. Goode in the unavoidable absence of Mr. Weiss. A letter was received from the secretary of the Retail Pharmacists' Union, expressing appreciation of the support given by the Committee in connection with the Government scheme of national economy. A circular on the subject of the supply of appliances, which had been sent out by the Ministry of Health, was interpreted as meaning that, whilst insurance chemists were at liberty to refuse to supply appliances not included in the officially "prescribed" list, they would probably consider it advisable to supply anything ordered by an insurance doctor on an official form, and whatever was so supplied would be paid for in due course. In such cases, however, the Insurance Committee would be able to recover the cost of any appliance improperly ordered by the doctor, and the amount so recovered would be credited to the Chemists' Fund. In reply to an inquiry from the R.P.U., it was agreed that the Drug Tariff need not be issued more frequently than twice yearly, on the understanding that chemists would receive payment for drugs, etc., according to monthly fluctuations. In a further letter from the R.P.U., it was explained that, whilst 10 per cent. would be deducted from the chemists' dispensing fees for the last three months of 1931, it had been arranged with the Ministry of Health to pay the chemists immediately the amount withheld during the first half of the current year; the final balancing for the year would take place as usual and the balance in the Drug Fund would be distributed as early as possible next year. In response to inquiries respecting the supply of Elastoplast and similar bandages, it was stated that such bandages would shortly be included in the tariff under the name "Zincoplast."

### SCOTLAND

**Aberdeen.**—At a meeting of the Aberdeen Burgh Insurance Committee, held recently, a report of the Pharmaceutical Service Subcommittee recommending that

£5 5s. be deducted from the sums otherwise payable to a local chemist who had made an error in dispensing was approved. The chemist had informed the Subcommittee that the test prescription had been dispensed by his assistant, a lady with ten years' experience. Instead of using the usual dispensing scales she had used a larger set. The Subcommittee concluded that no effective measures were taken to insure that the quantities dispensed conformed to the terms of the prescription, and that, whilst the excessive quantities supplied in that instance were not likely to affect a patient injuriously, the negligence displayed might have had serious consequences and was a distinct breach of regulations. The report and recommendations were approved.

## General Council of Panel Chemists (Scotland)

A MEETING of the General Council of Panel Chemists (Scotland) was held in Edinburgh on December 15, Mr. John B. McVitie (Glasgow) in the chair. The financial statement for the year, showing a favourable balance, was submitted and approved. A report was submitted as to the action taken by the Pharmaceutical Standing Committee under the emergency arising owing to the state of national finance. The arrangement which had been intimated by the Department of Health to each panel chemist had been generally accepted and approved. In communication with the Home Office on the subject of copying D.D.A. prescriptions it had been ascertained that if the B forms were pasted in a book kept for the purpose that would meet the requirements of the Home Office as to records, and would obviate the necessity for actually writing each prescription in the prescription-book.

In communication with the Scottish Association of Insurance Committees, reasons had been submitted as to the undesirability of having a second quality of cotton-wool for which there was no recognised standard. In regard to jaconet, it was agreed that there was no reason why it should not now be added to the list of prescribed appliances. The Standing Committee had reported against adding Elastoplast bandages to the list of appliances. It was reported that the Department of Health had under consideration a revision of the list of appliances, and that meantime the Department had sanctioned the payment of Elastoplast bandages when these had been ordered in certain areas.

A discussion took place as to proposals for the extension of medical benefit to the dependants of insured persons, and also to schemes for dispensing by the public assistance authorities. It was strongly urged that panel chemists should endeavour to secure that all public dispensing should be carried out on a general scheme on similar lines to that of National Health Insurance dispensing. The use of industrial spirit for inhalations had been sanctioned by the Customs and Excise authorities.

It was reported that complaints had been received from several areas as to the long delay between the taking of a test prescription and the coming to any conclusion. It was also said that chemists whose dispensing had been found quite satisfactory ought to have intimation that there was no complaint. There had been some cases also in which the official analyst's report was completely disproved by the report of an independent analyst, and the question of expenses was raised in such cases. A letter was submitted from the Department of Health stating that they had no proposals to make for any change in the terms of service for 1932; this was agreed to with a proviso that in the unsettled state of the market it should be left in the hands of the Standing Committee to arrange with the Department of Health, should any considerable fluctuation in prices render it necessary, for a revision of prices further than the existing arrangement.

# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

## 28 Essex Street, W.C.2, December 31

A YEAR composed of eight or nine months of generally quiet and sluggish markets, and the remainder of the time with conditions prevailing in the majority of products that were unique and about the most difficult one could imagine, closes to-day with the spot position generally steady and the forward outlook uncertain and liable to considerable alteration at any moment. It is, unfortunately, generally agreed that the prospects for the coming year, so far as a revival of business is concerned, are not good. The usual slackness in the markets is everywhere noticeable, and is, to some extent, due to the turn of the year, with its accompanying stock-taking and balancing. The Commercial Sales Rooms and the Baltic Exchange will close on Friday and Saturday, January 1 and 2. In pharmaceutical chemicals the only change of importance is a reduction in bismuth salts. Prices for other products are generally maintained and business is very quiet. In crude drugs, some products have taken on a rather easier tendency. Here, again, business of any size is mostly lacking. In essential oils the spot market is fairly steady and stocks of some lines are well below normal. Shipment conditions are somewhat unsettled and quotations appear to vary to an unusual extent. There are no cheap sellers on spot. In fixed oils some reductions in values are recorded, notably in palm oils, and linseed remains at cheap rates. Coal-tar products are keeping steady, with toluol and xylol again dearer.

## Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	Dec. 31	Value of the £
Amsterdam ..	Fl. to £	12.107	8 <sup>15</sup> / <sub>32</sub>	13/11 <sup>3</sup> / <sub>4</sub>
Berlin ..	Mks. to £	20.43	14 <sup>1</sup> / <sub>2</sub>	13/11 <sup>3</sup> / <sub>4</sub>
Brussels ..	Belga to £	35	24 <sup>7</sup> / <sub>8</sub>	13/11 <sup>3</sup> / <sub>4</sub>
Copenhagen ..	Kr. to £	18.159	18 <sup>3</sup> / <sub>32</sub>	19/11
Lisbon ..	Esc. to £	110	110	20/0
Madrid ..	Ptas. to £	25.22 <sup>1</sup> / <sub>2</sub>	40 <sup>3</sup> / <sub>8</sub>	39/6
Milan ..	Lire to £	92.46	66 <sup>1</sup> / <sub>2</sub>	14/5
Montreal ..	Dol. to £	4.86 <sup>3</sup> / <sub>32</sub>	4.15 <sup>1</sup> / <sub>2</sub>	17/1
New York ..	Dol. to £	4.86 <sup>3</sup> / <sub>32</sub>	3.39 <sup>1</sup> / <sub>2</sub>	13/11 <sup>3</sup> / <sub>4</sub>
Oslo ..	Kr. to £	18.159	18 <sup>1</sup> / <sub>2</sub>	20/1
Paris ..	Fr. to £	124.21	86 <sup>7</sup> / <sub>8</sub>	13/11 <sup>3</sup> / <sub>4</sub>
Prague ..	Kr. to £	164.25	114—116	14/6 <sup>3</sup> / <sub>8</sub>
Stockholm ..	Kr. to £	18.159	17 <sup>1</sup> / <sub>2</sub>	19/9
Warsaw ..	Zloty to £	43.38	31	14/3 <sup>3</sup> / <sub>4</sub>
Zurich ..	Fr. to £	25.2215	17 <sup>7</sup> / <sub>8</sub>	13/9 <sup>1</sup> / <sub>2</sub>

Bank rate 6 per cent.

## Pharmaceutical Chemicals, etc.

EXCEPT for minor spot business this market has been extremely quiet since the re-opening, and there is little likelihood of any increase in the demand during the remainder of the week. Normal conditions will no doubt be resumed next week. Quoted prices are fully steady on spot and values for foreign materials to arrive are based on current sterling values. Quinine sulphate is likely to firm up to full Convention rates now that the outside cheaper offers have been withdrawn.

**ASPIRIN.**—The market is fully steady. Home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8<sup>1</sup>/<sub>2</sub>d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s., 1 lb., 3s. 4d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8<sup>1</sup>/<sub>2</sub>d. per lb. f.o.b.; less than one cwt., 2s. 9d. per lb., ex works.

**BARBITONE.**—The dearer prices recorded last week are well maintained: quoted from 11s. 4d. to 11s. 6d. per lb. as to quantity.

**BROMIDES.**—Home makers' prices are unchanged at the advance recorded last week: ammonium, not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; smaller quantities, 2s. per lb.; potassium, B.P. crystals and granular, not less than five cwt., 1s. 5d.; one cwt., 1s. 6d., and smaller quantities, 1s. 9d. per lb.; sodium, B.P., not less than five cwt., 1s. 7d.; one cwt., 1s. 8d.; and smaller quantities, 1s. 11d.

per lb. Special prices for bulk quantities. Quoted without engagement.

**BISMUTH SALTS.**—Makers advise a reduction of one penny to 5d. per lb., as follows:—

	8 lbs. and under 28 lbs.	28 lbs. and under 1 cwt.	Not less than 1 cwt.
	Per lb. s. d.	Per lb. s. d.	Per lb. s. d.
Carbonate ..	8 9	8 3	8 0
Citrate ..	10 6	10 0	9 9
Nitrate cryst. ..	5 10	5 4	5 1
Oxide ..	12 3	11 9	11 6
Salicylate ..	8 11	8 5	8 2
Subchloride ..	11 11	11 5	11 2
Subgallate ..	8 6	8 0	7 9
Subnitrate ..	7 5	6 11	6 8

A rebate of 3d. per lb. will be allowed on sales of not less than two cwt. (either for prompt delivery or on contract) provided delivery is completed or paid for within three months. Liquor bismuthi P.B. in W-qts, 1s. 2d. per lb.; six W-qts., 11<sup>1</sup>/<sub>2</sub>d. per lb.; 12 W-qts., 10d. per lb.; 36 W-qts., 9<sup>1</sup>/<sub>2</sub>d. per lb. Without engagement. Previous notification of price alteration was on November 25, 1931.

**CITRIC ACID (B.P. CRYSTALS).**—Foreign material to arrive is not competitive on account of the 50 per cent. import duty. Stocks on hand are held at about 1s. 1<sup>1</sup>/<sub>2</sub>d. to 1s. 1<sup>3</sup>/<sub>4</sub>d. per lb., less 5 per cent., carriage paid. British makers quote 1s. 1<sup>1</sup>/<sub>4</sub>d. per lb., less 5 per cent. discount.

**CREAM OF TARTAR.**—Forward offers of Continental material to arrive are not on the market. Spot stocks in dealers' hands are firm at about 102s. to 103s. per cwt., less 2<sup>1</sup>/<sub>2</sub> per cent., carriage paid. British makers quote 99 to 100 per cent. at 103s. 6d. per cwt., less 2<sup>1</sup>/<sub>2</sub> per cent. discount.

**HEXAMINE** is very steady as quoted by dealers at 2s. 8d. to 2s. 10d. per lb. as to quantity.

**METHYL SULPHONAL** is quoted to arrive at 18s. 2d. up to 20s. per lb.; spot would be slightly less in some quarters.

**MILK SUGAR.**—Continental material is steady as quoted, with ton lots about 60s., and smaller lots up to 62s. per cwt., in two-cwt. cases.

**PHENACETIN.**—The market continues about steady, with dealers quoting spot close up to the replacement figures of 5s. 6d. to 6s. per lb. as to quantity, with powder 2d. per lb. extra.

**PHENAZONE.**—Spot material is steady at very little under the rates quoted for shipment, which vary with rates of exchange: crystals, ten cwt., 9s. 4d.; five cwt., 9s. 5d.; two cwt., 9s. 7d., and less, 10s. per lb., with powder 2d. per lb. extra.

**QUININE SULPHATE.**—Rather firmer conditions are likely to obtain in this market now that the outside maker has gone into the Convention. The official price remains at 2s. 5d. per oz. for bulk quantities, and the former cheaper offers are going off the market.

**SALICYLATES.**—Prices for acid, sodium and methyl salicylate are all unchanged and the markets are very steady and demands are largely being met from home sources of supply, the Continental producers finding it difficult to compete. A fire during the holiday week at a works situated in the North Midlands producing the acid and the sodium salt is reported. It is understood the acid plant is not affected and production will not be interfered with, but that the plant producing sodium salicylate has been put out of operation and production is likely to be very limited during the next few months.

**SODIUM DIETHYLBARBITURATE** is fully steady at the higher prices recorded last week: spot is quoted at 11s. 4d. to 11s. 6d. per lb. as to quantity.

**TARTARIC ACID (B.P. CRYSTALS).**—Foreign material on spot is steadily held at the quoted prices of 1s. 1<sup>1</sup>/<sub>4</sub>d. to 1s. 1<sup>3</sup>/<sub>4</sub>d. per lb., less 5 per cent., and forward positions are not quoted. British makers quote 1s. 1<sup>1</sup>/<sub>4</sub>d. per lb., less 5 per cent. discount.

**VANILLIN.**—Market is firm as quoted. Continental to come forward would be dearer on present rates of exchange: ex guaiacol, one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.; ex clove oil, 16s. to 19s. per lb. as to quantity, from one ton to less than 14 lb.

### Crude Drugs, etc.

**AGAR-AGAR.**—The spot position is easier and very dull. Kobe No. 1, 4s. 2d.; No. 2, 4s.; Yokohama, 3s. 11d. per lb. Shipment is again cheaper. Kobe No. 1, 3s. 4½d.; No. 2, 3s. 3d.; Yokohama, 3s. 2½d. per lb. c.i.f.

**ANTIMONY.**—The market is steady but quiet. Chinese crude, spot, £22; shipment, £18 10s. c.i.f. Chinese oxide, spot, £33; shipment, £30 c.i.f.

**BISMUTH.**—The price of the metal has been reduced to 6s. per lb.

**CAMPOR.**—Japaneso on spot is about steady, but business is slight, with slabs 3s. and tablets 3s. 6d. per lb. Shipment is rather easier, with slabs, 2s. 2d.; flowers, 2s. 3d. and tablets 2s. 7d. per lb. c.i.f. English refined and synthetic are unchanged.

**CLOVES.**—The market is very slack. Zanzibar, spot, 8½d. to 8½d.; shipment, December-January, 7½d.; Madagascar, spot, 8½d. sellers.

**COD-LIVER OIL.**—The market is about unchanged and steady, with business quiet at the moment. Finest Lofoten steam-refined non-freezing medicinal oil, 115s. per barrel c.i.f. Spot, in minimum five-barrel lots, 124s. per barrel.

**GUM ACACIA.**—Business has, so far, been negligible and the market is quoted about unchanged. Spot, Kordofan cleaned sorts, 42s. 6d.; natural, 40s. 6d.; bleached, 95s. to 97s. 6d. per cwt. Shipment, Kordofan cleaned sorts, 37s. 6d.; natural, 36s. c.i.f.

**HONEY.**—The market is well maintained at full rates, with available stocks very limited.

**IPECACUANHA** remains slack, with spot sellers of Matto Grosso at about 5s. 9d. per lb. for good quantities.

**MENTHOL.**—The market is unchanged on quotation and is very quiet. K/S brands, spot, 15s. 9d.; shipment, December, 14s.; January-March, 13s. 3d. per lb. c.i.f.

**MERCURY.**—The quotation for Spanish-Italian remains at 30 dollars f.o.b. Spot prices are steady at £19 per bottle, in good quantities.

**PEPPER.**—The market was dull at the re-opening and values are easier. Lampong, spot, 7½d.; shipment, January-March, 6½d.; March-May, 7½d. c.i.f. sellers. Tellicherry, spot, 7½d.; shipment, January-March, 67s. c.i.f. Alleppey, spot, 7½d.; shipment, January-March, 65s. 6d. c.i.f. White Muntok, spot, 8½d.; shipment, January-March, 8½d.; March-May sold at 8½d. c.i.f.

**RUBBER.**—A fair business has been done since the re-opening and values for all positions are a little better. U.K. stocks, 126,951 tons, against 117,921 tons a year ago. Standard ribbed smoked sheet, sellers, spot, 3½d.; January, 3½d.; February, 3½d.; March, 3½d.; April-June, 3½d.; July-September, 3½d.

**SARSAPARILLA.**—The market is dull and unchanged: grey Jamaica, 1s. 6d.; native, 1s. to 1s. 1d. per lb.

**SEEDS.**—Markets are quiet, with very little business passing. ANISE.—Spanish, 52s. 6d., and Russian, 37s. 6d. per cwt. on the spot. CANARY.—Mazagan, spot, 15s. 6d.; 15s. 3d. bid; Tangier, 14s.; Kenitra, 14s.; Larache, 14s. 6d. CORIANDER.—1929 crop offering at 15s. CUMIN.—Malta, 45s. spot; Morocco, 30s.; for shipment, 29s. e.i.f. quoted. FENUGREEK.—Morocco, 15s. spot; Tunisian, 17s. LINSEED.—Mazagan, spot, 14s. 9d.; Morocco, 14s. CARAWAY.—Dutch, on spot, 35s. MUSTARD.—English, 23s. 6d. to 23s. per cwt. according to quality. No good quality offering.

**SENEGA.**—The spot market is steady, but business is lacking: quoted at 1s. 10½d. per lb.

**SENNA.**—The spot markets have been quiet so far, but the tone continues very steady at unchanged rates for Alexandrian and Timnevelly pods and leaves of all grades.

**SHELLAC.**—The market has been very quiet since the holidays. TN standard orange, spot, 72s.; fine orange, 90s. to 165s.; pure button, 95s. For delivery, TN, March, 68s. 6d. paid; May, 70s. 6d. sellers. For arrival, TN, sellers, January-February, 64s. c.i.f.

### Essential Oils

THE markets have been very dull since the holidays and it is evident that little serious business will be transacted till after the New Year. A feature of the spot position is the

steady tone in most directions, accompanied by limited supplies. The chief products are quoted generally unchanged.

ANISE (STAR) is very dull on spot and possibly a shade easier.

BERGAMOT.—Business is negligible. Spot offers are in the region of 10s. 6d., while the shipment market is irregular, with an easier tendency.

CASSIA is fully steady as quoted on spot from 3s. 9d. per lb., with shipment costing a fraction more.

CITRONELLA.—Business of any size is lacking. Ceylon is firm at 1s. 10½d. to 1s. 11d. spot and 1s. 9d. per lb. c.i.f. Java is unchanged, with spot about 2s. 9d. per lb. for fair quantities.

EUCALYPTUS. — Both Spanish and Australian are unchanged; market is quiet.

GERANUM.—The feature on spot is the limited supplies of Bourbon.

LAVENDER.—Prices for all grades of French are steady; business poor.

LEMON.—New crop Sicilian hand-pressed is quoted for shipment at about 4s. 9d. per lb. c.i.f., and old crop about sixpence less. Spot is quoted at about 4s. 4d. to 4s. 6d. per lb.

ORANGE is unchanged, with little interest shown. Spot, Sicilian sweet, barely 8s. per lb.

PEPPERMINT.—So far, there has been nothing doing in Japanese demethylated with spot, about 4s. 4½d.; October-December, 4s. 1½d.; January-March, 3s. 9d. per lb. c.i.f.

PETITGRAIN is dearer for shipment at 4s. 4d. per lb. c.i.f. Spot might be a shade less in some quarters for quantities.

SPIKE.—Quotations are steady, with the market slack, Spanish, 3s. 9d. to 3s. 10d. per lb.

The following arrivals have taken place from the countries indicated during the period December 17 to 22 inclusive: Bergamot (It.) 39 cs.; cananga (Java) 2 dms.; cassia (Cy.) 10 cs.; citronella (Java) 4 dms.; clove (Fr.) 4 dms.; copaiba (U.S.) 5 cs.; eucalyptus (Austl.) 119 dms.; lavender (Fr.) 3 pkg., (Spn.) 8 dms., (Cy.) 1 dm.; lemon (It.) 129 cs.; orange (Nyasaland) 40 cs., (It.) 51 cs., (Jam.) 20 cs., (Rhodesia) 26 cs.; patchouli (Fr.) 13 cs.; peppermint (Jp.) 30 cs., (Nthlands.) 2 cs., (U.S.) 6 dms.; rosemary (Spn.) 2 dms.; rosewood (Fr. Guiana) 3 dms.; various (Fr.) 15 cs.

The following arrivals have taken place from the countries indicated during the period December 23 to 29 inclusive: Anise (Star) (H.-Kong) 5 cs. 5 dms.; bay (B.W.I.) 2 cs.; clove (Fr.) 8 cs., (Madagascar) 1 dm.; eucalyptus (Austl.) 506 cs.; lime (Br. Guiana) 6 cs., (B.W.I.) 10 cs. 2 dms.; peppermint (U.S.) 10 cs.; sandalwood (Ind.) 350 cs.; thyme (Spn.) 16 cs.; various (Ind.) 5 cs., (Fr.) 2 cs.

### Fixed Oils, etc.

SINCE the re-opening the markets have been more or less lifeless and no improvement is looked for this week. Some few products are quoted rather easier. COCONUT is lower, with deodorised at 27s. 6d. spot and Ceylon at 25s. c.i.f. COTTON is slack and unsteady at about unchanged rates. GROUNDNUT is easier, with deodorised on spot at 36s. and crude Oriental at 26s. c.i.f. LINSEED (raw, naked) has been dull and is rather easier: on spot, 15s.; January, 14s. 3d.; January-April, 14s. 9d.; May-August, 16s. 4½d. PALM is lower and the market is neglected: Lagos, 19s. 6d.; softs, 18s. 6d.; mediums, 18s. 9d.; hards, 20s. 3d.; bleached, 22s. spot. PALM KERNEL is dull and unchanged. RAPE is lower, with deodorised at 33s. and crude at 31s. spot. TURPENTINE has been very flat since the re-opening and is quoted rather easier. Total London stocks, 30,927 barrels. On spot, 51s.; January-April, 52s.

### Coal Tar Products, etc.

CONDITIONS in this section continue fairly steady, but at the moment there is not much business moving. BENZOL is distinctly firm at former rates, and some advance in prices would not be surprising. Makers' prices for CARBOLIC ACID CRYSTALS (39° to 40° C.) are firm, with crude carbolie 60's quoted at 1s. 8d. to 1s. 9d. per gallon, naked at works. CRESYLIC ACID is still meeting with a disappointing demand. CREOSOTE OIL is steady but rather quiet. TOLUOL is again dearer and firm, with supplies limited: commercial 90's, 2s. 2d.; pure, 2s. 6d. to 2s. 7d. per gallon. XYLOL is firm and again dearer: commercial, 2s. 1d.; pure, 2s. 4d. to 2s. 5d. per gallon in bulk quantities. SOLVENT NAPHTHAS are steady and unchanged. PITCH is meeting with a sustained inquiry for export, and the market is firm as quoted at 67s. 6d. to 70s. per ton f.o.b. East Coast.

# Chemical Markets During 1931

CONCLUDING our review of pharmaceutical chemical markets during 1931 from last week's issue (p. 766) we find that METHYL SULPHONAL was unchanged on quotation from 12s. 7d. to 13s. 10d. per lb. from January to September, but most of the business was done at cheaper figures, with second-hand sellers in evidence. At the break in sterling spot values advanced sharply to 15s. to 16s. 6d., and continued to move up with the fall in exchange rates, closing at about 18s. to 19s. 6d. per lb., as to quantity. PARAFORMALDEHYDE (100 per cent. powder) was very keen during the first six months of the year, and values moved down to about 1s. 4d. to 1s. 5½d. per lb., and later the market weakened to about 1s. 3d. and less for bulk quantities. During the last three months of the year prices were fairly steady at about 1s. 3½d. to 1s. 6d., as to quantity. PARALDEHYDE has been at cheaper prices this year with home makers prominent. Quoted from 10d. to 1s. per lb., as to quantity and packing. PHENACETIN was fairly steady on quotation for the first six months of the year at 3s. 8d. to 3s. 10½d. per lb., as to quantity, but there was a fair amount of secondhand material on the market at cut prices. During the third quarter of the year the market was a little steadier at the Convention prices and business was satisfactory. In October dealers' prices were advanced to 4s. 5d. to 4s. 8d. per lb., and from then onwards values moved with rates of exchange, the year ending with spot values at 5s. 6d. to 6s. per lb. for crystals, with powder 2d. per lb. extra. PHENAZONE was unchanged on quotation at 6s. 11d. to 7s. 3½d. per lb., as to quantity, during the first seven months of the year, but a good deal of business was done at rather cheaper prices. Early in July the Convention rates were reduced to 6s. 4d. to 6s. 8½d. per lb., and the market held fairly steady at these figures until early in October, when dealers' prices advanced by 20 per cent. The market then fluctuated with sterling exchange rates and gradually moved up to 8s. 9d. to 9s. 3d. in November and to 9s. 4d. to 10s. per lb., as to quantity, for crystals with powder 2d. per lb. extra, by the end of December. The market, after being discounted in the early months of the year, closes very steady.

## Home Makers Competitive

PHENOLPHIHALEIN was keenly competitive during the first half of the year and prices fell away from the opening figures of 5s. 11d. to 6s. 1½d. per lb., as to quantity, to 5s. to 5s. 2½d. per lb. During this time business was only possible at very keen prices. With the introduction of new home sources of supply still cheaper prices were freely mentioned, with about 4s. 9d. in August and down to 4s. 6d. in November and closing the year at about 4s. 4d. to 4s. 8d. per lb., as to quantity. Since the break in sterling in September foreign material has been completely non-competitive, but there is still keen rivalry between home makers for the business. POTASSIUM PERMANGANATE (B.P.) was at cheap prices during the first eight months of the year with dealers quoting 5½d. for large quantities in drums up to 6d. per lb. for druggists' parcels. In September the market was advanced to 6½d. to 7d., and later, with weaker sterling, spot was quoted at 7d. to 7½d. per lb., as to quantity. POTASSIUM SULPHOGUAIACOLATE lost about 2d. to 3d. per lb. during January to June, being then quoted at 3s. 4d. to 3s. 6d. per lb., and by August the market had weakened to 3s. 2½d. per lb., with business quiet and cheap sellers in evidence. In September dealers' prices advanced sharply to 4s., and by November 4s. 2d. to 4s. 4d. was being mentioned, the year closing steady at 4s. 4d. to 4s. 6d. per lb.

## Quinine Convention

QUININE SULPHATE was quoted unchanged under the Convention at 1s. 8d. per oz. from January up to September, but there was a fair quantity of out-

side material selling at something less. In September the controlled price was moved up to 2s. 1d. per oz., but there were sellers at less. During October and November the figure for this market moved with sterling exchange rates, advancing to 2s. 3d., and finally to 2s. 6d. per oz. early in December. At the close of the year, with an improvement in exchange rates, the price moved back to 2s. 5d. per oz. for this market. The price in the American market was put up from 36 cents to 40 cents per oz. at the end of December, and it is understood that the outside Continental maker has gone into the Convention. Firmer conditions are anticipated in this market at no distant date. RESORCIN lost some ground early in the year, with cheap sellers cutting sales prices, and in June was quoted on spot at 2s. 9½d. to 2s. 11d. per lb., as to quantity. Business was slow, and these prices were difficult to obtain. Early in October, with the break in sterling, the market was quoted at 3s. 6d. to 3s. 9d. per lb. Further advances were recorded in November, and at the close of the year dealers were quoting about 4s. to 4s. 4d. per lb., as to quantity. SALICYLIC ACID, B.P., has undergone practically no change in sales prices during the year, the figure for ton lots being 1s. 5d. and for one cwt. 1s. 6½d. per lb., with small parcels up to 2s. Home makers have not had foreign competition to contend with. SALOL was quoted at 3s. 7½d. to 3s. 10½d. per lb., as to quantity, from January up to early September, but there was a fair amount of second-hand cheap material on the market. Dealers' prices were then advanced to 4s. 6d. to 4s. 8d. per lb., with further increases in November, necessitated by the fall in sterling exchange. At the end of December the market was steady at the still higher rates of 5s. 5d. to 5s. 9d. per lb., as to quantity, for crystals, with powder 2½d. per lb. extra. SANTONIN was a competitive market during the first half of the year, and not very much business of importance was done at the quoted rates of £52 10s. per kilo, this figure being well discounted. In July the market was quoted at £48 10s. to £51 10s. per kilo, as to quantity, and in November the price for five-kilo lots was £48 15s. and for one-kilo £49 10s. In December the market was steadier, with the price at £50 per kilo. The home maker appears to have gained ground in this market.

## Home Makers Market

SODIUM BENZOATE, B.P., was in very fair demand in the early months of the year, and competition from the Continent was keen. Spot prices were in the region of 1s. 6½d. to 1s. 7d. per lb., as to quantity. In July and August the market was a shade easier at 1s. 6d. to 1s. 7d. per lb., with home makers seeking the business. In October the market was a good deal steadier, and values moved up to about 1s. 8d. to 1s. 9½d. per lb., as to quantity. At the close of the year the home makers were in possession of the market, with prices about 1s. 8½d. for ton lots up to 1s. 10d. per lb., for small quantities. The market closes very steady. SODIUM DIETHYLBARBITURATE was quoted at 8s. 9d. in January, and the market was dull and rather easy. At the half-year the spot value was in the region of 9s. per lb. The tone was weaker in August, with spot easy at 8s. 9d. In September dealers were asking up to 10s. 6d., although there may have been sellers at less. This figure held as a quotation up to the middle of December, when firmer conditions were recorded and values advanced to 11s. 4d. per lb.

## Salicylates

SODIUM SALICYLATE (B.P.) has been steady all the year at the quoted rates fixed by the Continental-British Convention. Home makers appear to have done quite well during the first nine months of the year and to have secured most of the new business on the market during the last three months. From the time of the break in sterling in Septem-

ber Continental producers found it very difficult to sell on this market at the agreed figures, the home makers benefited accordingly. Closing prices were: Powder, two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 28 lb., 2s. 1d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d. per lb., with crystals 1d. per lb. extra. SULPHONAL experienced a very quiet demand from January up to early autumn, with the quoted figures for spot at 10s. 1d. to 11s. 2d. per lb. for crystals. These prices were generally well discounted throughout. In September dealers' prices were advanced to 12s. 1d. to 13s. 5d. per lb., and further increases were recorded in November with the fall in sterling. In December material to arrive from the Continent was steady at 15s. to 16s. 9d. per lb., but there were some spot sellers at less. Second-hand cheap sellers have persistently cut this market, but there is a steadier tone at the close.

### Home Makers Protected

TARTARIC ACID (B.P. CRYSTALS) was a keenly competitive market during the first six months of the year. Business was far from satisfactory, and the anticipated improvement in the spring did not materialise. In January spot was at 1s. 0½d. per lb., less 5 per cent. discount, for foreign material. Gradually weakening, the price in June was down to 11d. to 11½d. per lb., less the discount. The market was still unsteady, and, due to severe competition, values went still lower, with 10½d. quoted in July and down to the lowest figure of the year in July of 10½d. per lb., and even this figure was discounted for important bulk business. During this time home makers had been following the market. In September the market improved with foreign material at 10½d. to 11d. to 11½d. per lb., and in October a further advance to 11½d. to 11¾d. per lb. was recorded. During November the price for foreign was round about 1s. per lb., and in December the fall in sterling exchange rates forced the price to 1s. 1d. per lb., less 5 per cent. These prices were for material to come forward, and some spot supplies may have been available at less during October and November. In December the imposition of an import tax of 50 per cent. had the immediate effect of stiffening the market, and there were no more cheap sellers. The outlook for the opening months of the coming year is certainly more promising for the home makers, and values are, at least, likely to be well maintained. THYMOL.—Attempts to control prices for this market did not prove very satisfactory, and finally the movement was abandoned. In January prices for synthetic fine white were at 7s. to 7s. 3d. per lb., with ajowan seed about 6d. dearer. By the half-year values had moved down to 6s. 1½d. to 6s. 6d., and in July to 6s. to 6s. 4½d. per lb. During these early months of the year the market was mostly unsteady, and a good deal of the business was done at well under the quoted rates. In August the spot position was down to 5s. 10d. to 6s. 3d. per lb., and less was being taken. During the last three months of the year quoted prices have been steadier, closing at about 5s. 9d. to 6s. 3d. per lb. for synthetic and from 7s. 3d. to 7s. 9d. for ex ajowan seed.

### A Healthy Market

VANILLIN has been fairly steady on quotation under the Convention, but for the most part these figures were generally well discounted for actual business. From January onwards up to September ex guaiacol was quoted at 13s. per lb. for ton lots up to 15s. for small lots, but these prices were seldom obtained. Outside material was fairly free. At the end of September the scale of prices was advanced to 14s. 3d. to 16s. 3d. per lb. The cheaper outside material, much of it in secondhands, was gradually taken off the market and the actual sales prices in November were not much under the quoted rates. In December the market was steady at full Convention figures.

### Comparative Prices

The following table of values of the chief commodities in the pharmaceutical chemical market gives the closing prices at the end of each of the past four years. The

considerable increases in values recorded during 1931 are practically all due to the fall in the exchange value of sterling:—

	December 1928	December 1929	December 1930	December 1931
Acetanilid .. lb.	1/4½ to 1/6	1/4½ to 1/6	1/4½ to 1/6	1/5½ to 1/9
Amidopyrin .. "	7/6 to 7/9	10/7 to 11/1	12/6½ to 13/3½	17/4 to 18/-
Ammon. bromide .. "	1/11 to 2/-	1/10 to 1/11	1/8½ to 1/8½	1/8 to 2/-
Aspirin .. "	2/3 to 2/6	2/9 to 2/11	2/9 to 3/6	2/7 to 3/4
Barbitone .. "	5/8 to 5/11	7/3 to 7/9	7/- to 7/5	11/3 to 11/6
Benzoic acid .. "	2/- to 2/2	2/0½ to 2/1½	1/11 - 1/11½	1/10 to 2/-
Calcium lactate .. "	1/2½ to 1/3½	1/2 to 1/3½	1/1½ to 1/3	1/2 to 1/3½
Chloral hydrate (duty paid) .. "	3/1½ to 3/3	3/1 to 3/3	2/11½ - 3/1½	2/11½ - 3/1½
Citric acid .. "	2/3 to 2/4	1/11 to 2/-	1/1 to 1/1½	1/1½ to 1/1½
Cresote, B.P. .. "	1/8 to 1/9	1/8 to 1/9	1/8 to 1/9	1/11 to 2/-
Cresote carbonate .. "	5/10 to 6/0	5/8 to 6/-	5/8 to 6/-	6/6 to 6/9
Guaicol carbonate .. "	4/6 to 4/8	4/6 to 4/10	4/4 to 4/8	7/8 to 8/-
Hexamine .. "	1/11 to 2/1	2/2½ to 2/4	1/10 - 1/10½	2/8 to 2/10
Hydroquinone .. "	3/7½ to 4/6	3/7½ to 3/11	3/7½ to 4/5	4/8½ to 6/-
Methyl salicyl. .. "	1/4 to 1/6	1/6 to 1/8	1/3 to 1/5	1/4½ to 1/6
Methyl sulphonal .. "	8/9 to 8/11	12/7 to 13/10	12/7 - 13/10	18/- to 20/-
Milk sugar cwt.	54/6 to 60/-	54/6 to 56/-	45/6 to 46/-	60/- to 62/-
Paraformaldehyde lb.	1/7 to 1/8	1/7 to 1/8	1/5½ to 1/6	1/3½ to 1/6
Paraldehyde .. "	1/1 to 1/3	1/1 to 1/4	1/1 to 1/3	0/10 to 0/11½
Phenacetin .. "	2/3 to 2/5	3/2½ to 3/5	3/8 to 3/11	5/6 to 6/-
Phenazone .. "	3/7 to 3/8	5/9 to 6/1	6/11 to 7/3½	9/3 to 10/-
Phenolphthalein .. "	5/11 to 6/1½	5/11 to 6/1½	5/11 to 6/1½	4/4 to 4/8
Potash bromide, B.P. lb.	1/7½ to 1/8	1/5½ to 1/6½	1/4½ to 1/5	1/3 to 1/7
Potash sulphoguaiaic .. "	3/11 to 4/-	3/6 to 4/-	3/9 to 4/-	4/4 to 4/6
Quinine sulphate oz.	1/8	1/8	1/8	2/5
Salicylic acid, B.P. lb.	1/3 to 1/6	1/5 to 1/7	1/5 to 2/-	1/5 to 2/-
Salol .. "	2/3 to 2/6	3/7½ to 3/10½	3/7½ - 3/10½	5/4 to 5/9
Sodium bromide .. "	1/10 to 1/11	1/9 to 1/9½	1/7 to 1/7½	1/5 to 1/9
Sodium diethyl. barb. lb.	7/10 to 8/-	10/-	8/6 to 8/9	11/3 to 11/6
Sodium salicyl. .. "	1/6 to 1/8	2/2 to 2/4	1/10 to 2/5	1/10 to 2/5
Sulphonal .. "	6/6 to 6/8	10/1 to 11/2	10/1 to 11/2	15/- to 16/9
Tartaric acid, B.P. .. "	1/4½ to 1/4½	1/3½ to 1/3½	1/0½ to 1/0½	1/1½ to 1/1½
Thymol .. "	9/6 to 9/11	8/3 to 9/-	7/- to 7/4	5/9 to 6/3
Vanillin .. "	15/- to 17/-	14/-	14/-	16/- to 19/-*

\* Ex clove oil (ex guaicol 14s. 3d. to 16s. 3d.).

### Gum Acacia Exports

BOXALL & Co. report exports from Sudan for the period January-November, 1931, were as follows:—

DESTINATION	1930			1931		
	Jan.-Oct.	Nov.	Total	Jan.-Oct.	Nov.	Total
Great Britain ..	3,454	171	3,625	4,516	249	4,765
U.S.A. ..	3,287	211	3,498	2,917	234	3,151
France ..	3,045	82	3,127	2,019	51	2,070
Germany ..	2,835	81	2,916	1,786	131	1,917
Italy ..	1,241	106	1,347	1,184	122	1,306
Belgium ..	1,087	63	1,150	1,185	96	1,281
Japan ..	643	38	681	856	10	866
Spain ..	334	7	341	336	20	356
Holland ..	489	34	523	662	99	761
Sweden ..	234	6	240	685	5	690
Norway ..	92	—	92	46	5	51
Australia ..	457	8	465	424	—	424
New Zealand ..	41	1	42	33	3	36
China ..	259	29	288	273	10	283
Canada ..	41	15	56	74	5	79
British India ..	23	10	33	110	5	115
Denmark ..	13	3	16	52	7	59
Finland ..	20	7	27	19	3	22
Poland ..	—	2	2	68	1	69
Yugoslavia ..	—	—	—	5	—	5
Rumania ..	16	—	16	12	—	12
Turkey ..	10	2	12	15	3	18
Greece ..	19	3	22	23	—	23
Egypt ..	123	5	128	91	10	101
South Africa ..	23	—	23	30	—	30
Dutch Indies ..	5	1	6	8	—	8
Argentina ..	33	—	33	55	5	60
Brazil ..	35	—	35	33	—	33
Uruguay ..	5	—	5	28	—	28
Mexico ..	3	—	3	11	—	11
Other countries in America ..	31	—	31	22	—	22
Other countries ..	4	—	4	21	3	24
Total tons	17,902	885	18,787	17,599	1,077	18,676

The export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
November, 1930 .. Tons	752	13	110	885
November, 1931 .. Tons	1,005	28	44	1,077
January-Nov., 1930 .. Tons	16,164	132	2,491	18,787
January-Nov., 1931 .. Tons	17,503	240	933	18,676

Difference in 1931.. Tons +1,339 +108 -1,558 --111

# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

## The Next Pharmacy Bill

SIR,—I can hardly agree with the suggestion in your issue of December 26 (p. 743) that we should attempt at present to load any legislation for pharmacy with a claim to the exclusive sale of all medicaments to the public. That is the error of past efforts. Our claim to the exclusive sale of poisons, added to a further claim to the sale of all medicaments, would again raise fierce opposition, and so we may continue to fail in securing our principal aim, pharmacy for the pharmacist. Let us first of all secure an established position by law as compounders and dispensers of all medical prescriptions; that, I think, it must be agreed, is the first principle to secure. I have not lost faith in the Society as "Xrayser" seems to think, but I am not confident that the Society is best fitted to promote the required legislation. It would be a strong supporting influence, but not necessarily the best negotiating instrument. The R.P.U. is really of a more representative character, though not numerically; but both require a good deal of gingering up, and I hope the general body of pharmacists will yet show that what is worth achieving is worth working and fighting for.—I am, etc.,

FRANK E. S. CLARKE.

Newport.

SIR,—Mr. F. E. S. Clarke, speaking at Newport (C. & D., December 19, p. 724), said that a Pharmacy Bill should contain one main clause providing that it shall be unlawful for any medical prescription to be compounded or dispensed except by or under the supervision of a duly qualified pharmacist. And he further said that medical opposition to such a condition did not exist to anything like the extent feared. But a clause like the above is so comprehensive that it would totally prohibit all doctors dispensing in their own surgeries, would prohibit the employment of lady dispensers in surgeries, and would also prohibit dispensing by nurses and other unqualified persons in small hospitals and institutions, unless in every case there was a pharmacist either to do the work personally or to be in charge. Whatever may be the attitude of doctors in Mr. Clarke's neighbourhood, where I am established there is not one who does not either do his own dispensing or employ an unqualified dispenser; I do not think that a single one of them would entertain for a moment giving up this practice. In addition there is a local scheme of medical treatment for uninsured persons by weekly subscriptions; the chemists were never approached in any way to undertake the dispensing for this scheme, not even at tariff rates. I am afraid that in this instance the wish is father to the thought, and that is as far as we are likely to get under present conditions.

Yours truly,

DISPENSATED (30/12).

## Chemists' Lines

SIR,—Some proprietaries are put on the market as chemists' lines; we are exhorted to support the manufacturers as these goods are advertised to us, and sometimes also to the public, as being reserved to our trade, and yet in a very short time we find that they are on sale at grocers' and other shops. Although it may not be the policy of the manufacturers, there is no doubt that these people are able to obtain their supplies without any trouble, and one can only conclude that it is through some wholesale houses who supply them with their usual lines, and are able to include the chemists' proprietaries in their general orders. It would seem, therefore, that if concrete instances could be obtained of the source of supply of some such article which is definitely held out by the proprietors to be reserved to chemists, then, if they really wish to uphold that policy,

they would stop supplies to the wholesaler concerned. The retail chemist is becoming very suspicious of the persuasive arguments of the representatives of these houses.—Yours truly,

RESTRICTED (15/12).

## Abnormal Import Duties

SIR,—The recent Order of the Board of Trade under the Abnormal Importations (Customs Duties) Act, 1931, contained at least one item that must cause some surprise in business circles. The department responsible for operating this emergency measure have a principle laid down for their guidance, namely, subsection 1 of Section 1 of the Act, wherein it is provided:—

"that if the Board of Trade are satisfied that articles of any class or description comprised in Class III of the Import and Export List issued under the authority of the Treasury and the Commissioners of Customs and Excise for the year 1931 are being imported into the United Kingdom in abnormal quantities it shall be lawful for the Board with the concurrence of the Treasury by Order to apply the Act to articles of that description."

There is no question of the Board of Trade or the Treasury having discretionary powers. Now they have included cream of tartar in Order No. 3, and from December 19 imports have been liable to an impost of 50 per cent. *ad valorem*. Here are the most up-to-date figures of imports:—

		1929	1930	1931
October	... cwt.	2,760	3,909	2,257
November	... cwt.	2,754	2,401	2,702
	cwt.	5,514	6,310	4,959

Actually the imports of this particular product for the two months adopted by the department were well under the average. The Act says it shall be lawful to impose the duty in cases where the imports are abnormal. Is it not reasonable to suggest that it is entirely arbitrary for them to impose the duty in an instance where the imports have been subnormal?

Yours truly,

TARTAR (30/12).

## Buy British!

SIR,—At the outset of 1932 may I suggest that pharmacists throughout the country will help the national cause (and incidentally their own) by displaying British-made goods and by calling attention to the fact? The British manufacturer will doubtless supply cards with the slogan "British made," and some can, and probably will, be more inclusive and state "British owned." If the pharmacist requests such cards often enough, the manufacturer will in due course respond, and the triple alliance of consumer, retailer and manufacturer will enhance the purchasing value of the £ at home and abroad.—Yours faithfully,

ALTRINCHAM (30/12).

## A Problem in Proprietaries

SIR,—“Profit-Seeker” (C. & D., December 19, p. 738) asks whether it is better to pack one's own preparations and drugs or to buy branded packs, and also introduces the question of the prices obtainable in either case. I have been brought up to home packing, and since being in business for myself have always continued this practice, and I certainly consider that it pays. One can buy larger quantities of drugs at a correspondingly lower rate, and the saving in cost brings in a little extra profit on the dispensing and counter sales as well as on the packed lines. One can adopt a style of label exclusive to the business and uniform for the various

drugs packed, and this label becomes connected with one's pharmacy, and also a sign of quality. And the biggest argument in favour of this method is that the same pack cannot be sold by one's nearest opponent at a cut price; nearly all the bought packs have some distinctive mark or brand on the label, and if one of these is adopted there is nothing to prevent any other shop, whether a chemist's or not, buying the same brand and displaying it at a cheaper rate. In every pharmacy there must be some quiet intervals which can be filled in with the packing; the overhead expenses are going on all the time, and may just as well be used to pay for packing as to be unproductive. Again, one pays for the wholesaler's overheads, and profit in addition, on the branded lines. There are very few shops without somebody who can be taught to do ordinary packing under proper supervision. With regard to prices, these are settled by the locality. If every chemist were to sell ready packed and branded drugs, we should soon be in the state of chaos that we are with tooth-pastes, face powders, etc., and we should daily encounter the customer who would refuse the seidlitz powder offered with a supercilious, "I never buy any but the So-and-so brand."—Yours faithfully,  
OWNPAK (29/12).

## Legal Queries

*R. T.* (7/12) employs an errand-boy who, when returning from his home, on his own bicycle, during the tea interval, came into collision with a motor-cycle. The boy was injured and his cycle was damaged. Is "R. T." under any liability? [In our opinion, as the accident did not occur in the course of the boy's employment, "R. T." is not under any liability in respect of it.]

*J. C. H.* (1/12).—The notice of assessment, although correct as to the agreed profit with the inspector, is incomplete. It is assumed, of course, that you have made a return of your income on the Form of Return which you should have received. If this has been done, write the inspector of taxes, pointing out that you are entitled to earned income relief, and the personal allowances for self (and wife and child or children, if such is the case) and claim to have the assessment amended. It is noticed, however, that the assessment is dated October 6, 1931, and you must bear in mind, when writing, that you have exceeded the twenty-one days' notice of appeal period, so it is advised that you frame your letter accordingly. If you have trouble, it is advisable to pass the matter to your auditor (if he is a qualified accountant) to deal with.

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*A. H.* (30/81).—DETECTING THEFTS.—The powder generally used for detecting thefts of money is methyl violet. Almost any aniline dye can be employed in this manner, another suitable one being magenta.

*G. O. W.* (23/9).—POWDER FOR IRRITATION.—This was given for irritation of the chest. It is very light, and of a ferruginous buff colour. It consists mainly of silica, with just a little iron. It appears to be a very fine form of silica.

*Raison* (10/12).—VANDYKE BROWN was originally a natural earth, consisting of bituminous and ferruginous matter. In place of this less rich colours consisting of caput mortuum (the residue of the distillation of iron sulphate) and calcined iron earths are now supplied, or compounds of lamp black, iron oxide and yellow ochre.

## Dispensing Notes and Difficulties

### A Water Problem

SIR,—What appearances should the following have when dispensed with (a) distilled water and (b) tap water:—

Acid. hydrochl. dil.	...	...	3iv.
Mag. sulph.	...	...	3iiss.
Syr. calcii lactophosph.	...	...	3iss.
Potass. brom.	...	...	3iv.
Spt. chlorof.	...	...	3iv.
Aquam	...	ad	3viij.

Yours faithfully,

I. F. S. (17/7.)

[This is a very concentrated mixture, and a heavy precipitate deposits when either distilled or tap water is used. There appears some difference, although slight, in the mixtures made up with tap and distilled water. The latter is more crystalline, and the former has a finer precipitate which shakes up like a white cloud rolling through the syrupy liquid. In dispensing, distilled water should always be used when in doubt. When lime salts, alkalis or sodium bicarbonate are to be dissolved distilled water is essential. In the above mixture we should expect some of the chloroform of the spirit to be salted out by the three ounces of salts in an eight-ounce mixture. The calcium lactophosphate is decomposed by the magnesium sulphate and calcium sulphate precipitated. There may be other changes and slight variations of appearance by temperature and different methods of mixing. There is no way to prevent the change in this mixture, as it stands.]

## Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

*Woad*

*Mr. C. Wass*, M.P.S., Holbeach, Lincolnshire, informs us that he has a bundle of woad, in full seed, grown in the Holbeach district last season, and that he will send any *C. & D.* reader, on application, a specimen for sowing. *Mr. Wass* adds that woad is a most interesting plant for experiment.

*Profitable Advertising*

To advertise the optical repairs side of my business I enclosed a lens wiper or cleaner, imprinted with an advertisement, in each monthly account I sent out. It certainly acted—in two ways. Customers have told me that it was a very fine reminder as regards their debts, although the idea never occurred to me at the time.—*W. H. P.* (7/31).

## Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," January 15, 1882

The Year 1881

The character of 1881 improves as we look closer into it. That British trade has expanded during the year is indicated by all the available statistics. . . . A new Pharmacy Bill had been prepared, and the discussion of it occupied much time in the early part of the year. . . . The Medical Department of the Privy Council declined, after examination, to assume the guardianship of the Bill, but when afterwards the Council [of the Pharmaceutical Society] had, or probably might have had, the opportunity of stating their case to the Royal Commission appointed to inquire into the Medical Acts, long discussions resulted in their abandoning the opportunity.



[Commenced C. & D., July 5, 1924]

**Xanthates.**—Xanthic acid (ethylhydrogen dithiocarbonate) forms salts with many of the metals. The potassium, and to a less extent the sodium, salts are employed as reagents in metallurgical analysis. Thus there is a useful colorimetric method which employs potassium ethyl-xanthate for the determination of copper. The xanthate, added to a solution containing traces of copper, produces a yellow colour varying in intensity according to the amount of copper present. (Larger amounts of copper produce a bright yellow precipitate of copper xanthate.) Potassium propyl-xanthate can be used as a reagent for cobalt and nickel salts; the cobalt compound formed is green, the nickel compound yellow. Potassium methyl-xanthate has been employed for the separation of nickel and cobalt, as it produces (in an ammoniated solution) with the former metal a soluble and with the latter an insoluble salt.

**Xylene** (xylol) is a coal-tar hydrocarbon, which also occurs to a small extent in certain petroleum oils, and may be prepared synthetically. There are three isomeric xylenes, ortho-, para- and meta-xylene, as in the case of all disubstituted benzene derivatives. It is dimethylbenzene, and a mixture of the three isomers is obtained from that portion of light tar oil boiling at 136°-141°. The three isomers may be separated in a state of approximate purity in the following manner:—If the mixture is shaken with 80-per-cent. sulphuric acid, the meta-xylene is dissolved, and by treating the residue with 98-99-per-cent. sulphuric acid, the ortho-xylene is extracted, leaving behind the para-xylene. The ortho compound is converted into a sulphonic acid by the sulphuric acid. This is diluted with water and distilled, when ortho-xylene passes over. It is a thin mobile liquid, resembling benzene and toluene in odour and general characters. Its specific gravity is about 0.865. It boils at 137°-140°, and solidifies at -28°. Ordinary commercial xylene boils at 135°-150°, and has a s.g. about 0.867. On oxidation ortho-xylene gives phthalic acid, the isomers giving corresponding isomeric acids. Xylene is only employed on a minute scale in medicine as a remedy for diseases of the respiratory organs. It is largely used as an organic solvent, and as the starting point for numerous compounds in the synthetic dye industry and allied industries.

**Xylol.**—See Xylene.

## Y

**Yacca Gum.**—See Xanthorrhoea Resin.

**Yage.**—This, "Ayahuasca" and "Caapi" are South American names representing plants used by the natives as ingredients in an intoxicating beverage to which they have become addicted. One of these is a climber occurring in the forests of Ecuador and sometimes cultivated, named *Banisteria Caapi*, Spruce, of the order Melphiaceae. A decoction of the powdered stem is said to cause clairvoyant or telepathic phenomena. Cardenas (1923) wrote a medical thesis on the plant, and found in it an alkaloid which he called telepathine. In the Colombian territories of the Putumayo and Coqueta rivers the stem of a plant, named yage, is used to prepare a similar intoxicating beverage. This was identified as *Hamadryton amazonicum*, Benth., of the order Apocynaceae. This is a poisonous order of plants; it is known, for instance, that *H. subercitum* (*Echites venenosus*) is very toxic, and that *Echites masculata* secretes a stupefying milky juice. Villalba (1925) found in yage two alkaloids, yageine and yagenine, and a dichroic

colouring matter. Yageine is the chief alkaloid, and occurs in oblique prisms melting at 206° C. It is very active physiologically. The toxic dose causes locomotor inco-ordination, convulsions and respiratory paralysis. As a general anaesthetic it is less active than cocaine. On man it acts as a powerful stimulant, provoking euphoria with augmentation of the memory and intellectual faculties, and at the same time increasing the muscular energy; in this respect it resembles caffeine. It also provokes curious visual hallucinations.

**Yard.**—A measure of length equivalent to three feet or thirty-six inches. The earliest O.E.D. quotation for the word (the etymology of which is somewhat conjectural) dates from 1377. As an English standard of length it was preceded by the verge (1353), and by the still earlier ell (45 in.). The *land-yard* is usually 5½ yards, but varies locally. In 1758 the House of Commons adopted as the standard yard "the distance between the two points in the gold studs in the brass rod . . . delivered herewith." A Select Committee, which reported to the House in 1821, recommended as the primary standard of length a brass yard made in 1760, and based on the Royal Society's standard yard of 1742. This standard, with the primary standard of weight, was destroyed in the fire that demolished the Houses of Parliament in 1834. A Commission was set up in 1843 for the purpose of selecting new standards of length and weight; these were made in the following year, and were deposited in the Houses of Parliament, official copies being distributed to various institutions at the same time (*C. & D.*, 1929, I, 830). It is an offence to be in possession, for use in trade, of any measure not of the denomination of the corresponding Board of Trade standard; and every measure used in trade must be officially stamped. (See Weights and Measures Act.)

**Yaw Root.**—See Stillingia.

**Year.**—For commercial and legal purposes: (1) A period of 365 or 366 days, beginning on January 1, and ending on December 31; (2) any period of twelve calendar months, comprising 365 or 366 days. The mean length of the solar year is estimated at 365.2422 days, hence the need for an additional day in each fourth year (known as a *Leap Year*), with certain exceptions. (See Calendar, Leap Year and Time.) The year for the purposes of public revenue ends on March 31, but the year for income-tax assessment ends on April 5.

**"Year-Book of Pharmacy."**—The report of the Executive Committee of the British Pharmaceutical Conference at its annual meeting in 1869 contained a recommendation that a year-book should be published for the use of members of the Conference. It was stated that in 1865 and 1866 a small "Year-Book of Pharmacy" had been issued by private enterprise. A subcommittee consisting of Professors Atfield and Bentley and Messrs. Brough, Carteighe and Reynolds submitted details of the proposed scheme of publication. The Conference unanimously adopted the report, and the first volume issued comprised the transactions for the year 1870, together with abstracts of scientific papers from other sources. The first editor was Mr. J. C. Brough, Editor of *THE CHEMIST AND DRUGGIST*; soon after his appointment he became seriously ill, and Mr. Joseph Ince was called in to assist in the compilation. Early in 1871 Mr. Brough found himself unable to continue the work, and his resignation was accepted with much regret. Mr. C. H. Wood was appointed editor; he was followed in 1874 by Mr. L. Siebold, F.I.C. In 1901 Mr. Siebold resigned on account of ill health, and Mr. J. O. Braithwaite, Ph.C., was appointed editor, with Mr. F. Ransom and Mr. E. Saville Peck as editors of the Transactions. A similar arrangement was followed till the series of volumes came to an end in 1927, the principal change being that Dr. C. H. Hampshire, B.Sc., F.I.C., Ph.C., became honorary general editor in 1924, with Mr. Braithwaite as editor of the abstracts. The general index consists of three parts, covering the years 1864-85, 1886-1903, and 1904-27 respectively. "The Year-Book of Pharmacy" is now merged with "The Quarterly Journal of Pharmacy and Pharmacology," published at 17 Bloomsbury Square, London, W.C.1.

# The C.&D. Commercial Compendium

**Yeast.**—A ferment obtained in brewing beer, and produced by the spores and cells of *Saccharomyces cerevisiae*. It is a frothy substance, with a sour odour and bitter taste, and in this style is usually known as brewer's yeast. The compressed form is of the same nature, but is a distiller's yeast, which occasionally contains starch to give it substance. In this form it is a yellowish-white mass, soft and pasty, though easily crumbled. It has a sour odour and is faintly acid in reaction. It loses moisture in the air easily to the extent of about 60 per cent., and in doing so darkens considerably and suffers loss in vitality. Many (and sometimes exaggerated) claims are made for the remedial virtues of yeast. The opsonic index of the blood is increased by the administration of yeast. It is suggested that the constituent to which this effect is due is the nucleic acid present. Yeast or its extract is, however, more efficient than nucleic acid *per se*. Again, in the treatment of boils and ague better results are obtained from brewer's yeast than from the compressed form. Various extracts are made of which yeast is the source, and are valuable on account of containing abundance of the vitamin B complex (q.v.). Yeast extract can be dried at 30°-35° C. without losing its activity. By drying *in vacuo*, a hard product is obtained presenting an albuminous appearance. A filtered solution of this product possesses the same properties as yeast extract. The enzyme of yeast is termed zymase (q.v.).

**Yellow Ochre.**—See Ochres.

**Yerba Santa.**—The dried leaves of mountain balm, *Eryodictyon glutinosum*, Benth. (*E. californicum*, Hook and Arn.), a native of Mexico and California, N.O. Hydrophyllaceæ, a low evergreen shrub with glabrous, resinous, alternate, long lanceolate leaves, more or less serrate, whitened beneath by close tomentum, glabrous above. The leaves are 5-15 cm. in length, 1-5 cm. in breadth, apex acute, thick, brittle, odour aromatic, taste balsamic, bitter, becoming sweetish. They contain 8 per cent. of tannic acid, a bitter acrid resin upon which the activity is believed to depend, also a minute quantity of volatile oil. Power and Tutin (1906) found a volatile oil and resin, also triacontane, pentatriacontane, eriodictyol, homoeriodictyol, all crystalline substances of a phenolic nature. The peculiar odour evolved on heating the leaves with dilute sulphuric acid is that of furfuraldehyde. The leaves have the power of disguising the bitter taste of quinine. The drug is a bitter tonic and stimulating balsamic expectorant, useful in asthma and chronic bronchitis. It is best exhibited in the form of a fluid extract, which is official in the United States Pharmacopœia.

**Ylang-ylang Oil.**—Ylang-ylang oil ("flower of flowers") is the product of distilling the flowers of *Cananga odorata*, a native of Ava and Tenasserim, and generally to be found both wild and in a state of cultivation throughout Southern Asia. The plant, in its cultivated state, reaches its greatest perfection in the Philippine Islands, and the best oil is distilled in Manila. Réunion also possesses a considerable industry. A large quantity of oil comes from Java also, but the oil has a much less fine odour than that from the East Indies. This oil is the most pronounced example of the product of the same plant, being entirely different in quality according to the locality of production. Oil from the Philippine Islands and Réunion is known as ylang-ylang oil, whilst the Java oil is styled cananga oil. Manila ylang-ylang oil has the following characters:—

Specific gravity .. ..	0.908 to 0.967
Optical rotation .. ..	-27° to -87°
Refractive index .. ..	1.4800 to 1.5032
Ester value .. ..	42 to 155

It is soluble in 0.5 to 2 volumes of 90-per-cent. alcohol. Réunion ylang-ylang oil has the following characters:—

Specific gravity .. ..	0.930 to 0.967
Optical rotation .. ..	-34° to -65°
Ester value .. ..	96 to 160
Refractive index .. ..	1.5000 to 1.5100

Java cananga oil has the following characters:—

Specific gravity .. ..	0.906 to 0.956
Optical rotation .. ..	-15° to -52°
Refractive index .. ..	1.4900 to 1.5050
Ester value .. ..	10 to 60 (rarely above 35)
Ester value (after acetylation)	45 to 100

The flowers of ylang-ylang contain from 1.5 to 2.5 per cent. of their weight of essential oil. They are richer in oil content when they have been grown well-exposed to the sun and when picked in dry weather. In Réunion, 1 kilogram of oil has been extracted from 40 kilos of flowers by prolonged distillation. This yield is too high, and results in a lower quality oil. In order to obtain a good quality oil, not more than 50 to 60 per cent. of the perfume should be extracted. In practice it has been found that with a short distillation a comparatively small yield of a good quality oil is obtained, as by this means only the finest and best essential oil is removed. The oil of good quality is amber in colour. Brown or whitish oil is not so highly esteemed. After distillation, it should be filtered at once and then placed in opaque vessels of glass, tin or tinned copper, possessing ground-in stoppers. Attempts have been made to cultivate the ylang-ylang tree in Amari, but commercial success has not visited these efforts. In Réunion the ylang-ylang begins to produce flowers at the age of from 18 months to 2 years. The flowers succeed each other continuously, so that the gathering of them is possible all the year round. The flowers do not all develop simultaneously on the same clusters, and only those at the right stage of development should be gathered. The flowers should be delivered to the stills soon after gathering as otherwise the yield of essential oil is decreased and the fineness of the perfume is lost. The distillation is carried out in the presence of water and may be performed in a simple still. Petroleum is sometimes found as an adulterant, especially of the cheaper cananga oils. The oil contains a number of aromatic compounds. Benzoic acid in the form of esters, linalol, possibly geraniol, and sesquiterpene cadinene are present. Pinene, *p*-cresol, methyl ether, and a crystalline solid melting at 138° were also found. Eugenol has been found in cananga oil and iso-eugenol in ylang-ylang oil.

**Yoghourt.**—Bulgarian beverage popularised by Metchnikoff, who showed that the lactic acid bacillus arrests in the bowels the growth of putrefactive organisms. A process for the preparation of yoghurt appears in "Pharmaceutical Formulas," 10th edition, p. 277.

**Yohimbe.**—A bark obtained from *Corynanthe Yohimbe*, Schum. (*Pausinystalia Yohimbe*, Schum. (Pierre)), a tree belonging to the N.O. Rubiaceæ, and found in South Cameroons and other parts of Western Africa. The tree is related to the cinchonas, and the bark has been used by the natives as an aphrodisiac. The bark of commerce is in flattened or slightly quilled pieces, 4 to 8 mm. thick, with an external layer of a grey-brown colour covered with lichen. The transverse fracture shows a soft fibre like velvet. The taste is bitter. The bark contains five alkaloids, the most important of which is yohimbine, discovered by Spiegel in 1896. A detailed study of this alkaloid was made by Fournneau and Fiore (1911) and Fournneau and Page (1914), who established the formula  $C_{21}H_{26}O_3N_2$ , and the identity of yohimbine with quebrachine isolated from the bark of *Aspidosperma Quebracho-blanco*, Schlecht, by Hesse in 1882. The identity was confirmed by Ewins in 1914. Yohimbine crystallises in needles melting at 234°, and is soluble in most organic liquids, but insoluble in benzene. It is a monacid tertiary base. Hydrolysis with alkali yields yohimbic acid. The hydrochloride is usually chosen for administration. Physiologically it is an excitant and an aphrodisiac to animal and man, and may produce nausea, salivation and irritability. In small doses yohimbine stimulates, and in large doses depresses, the respiratory centre. It is useful in irregular menstruation, and has been employed in angina pectoris and arteriosclerosis.

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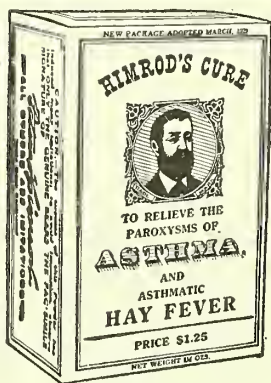
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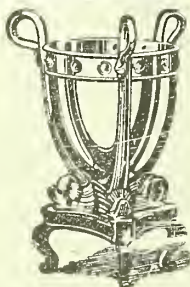
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*In smart envelopes with your name and address printed on back. Window Bills and Showcards.*

PACKED IN SMART 1 doz. & 6 doz. SHOW OUTERS  
CARRIAGE PAID. LESS 2½% C.W.O. 3d. P.A.T.A.

Prices for Irish Free State 2s. 6d. per gross extra.

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JULES DENOVAL & CO.  
THE GALEN MFG. CO.

**MAKERS OF CAPSULES,  
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No. 301a. Packed in decorated tins. 7/- per doz. tins.  
Containing Hæmoglobin, Citrate of Iron and Ammonia,  
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Ol. Copaiba. Ol. Santal. Meth. Salicylate. Hexamethylene.  
Dose—1 or 2, three times a day.

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Calcium Lactate 5 grains.

In boxes of 24. 7/3 per doz.

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Phenacetin 4 grains. Caffein Cit. 1 grain.

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Guaiacol 1 min. Quinine Sulph. 1 gr.  
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Containing Bland's equal to 2 pills. Arsenical Solution  
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Containing Bland's equal to 2 pills. Arsenical Solution  
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In tins, each 24 Capsules. 24/- per doz.

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AN OLD-FASHIONED—BUT REALLY EFFECTIVE  
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Prices 10½d., 1s. 3d. and 3s.

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Does not  
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Scheduled  
Poison.

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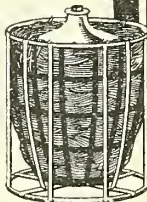
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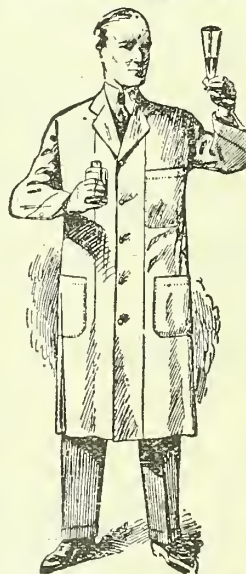
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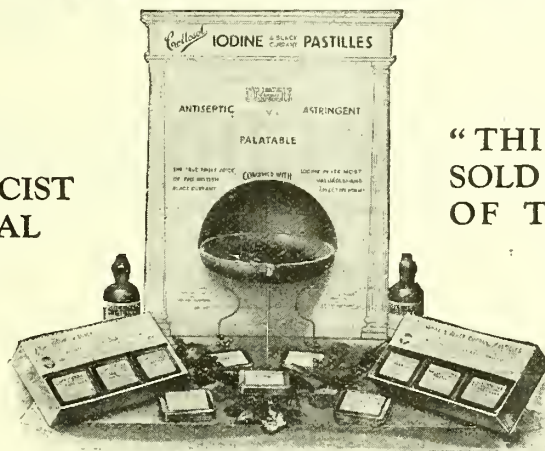
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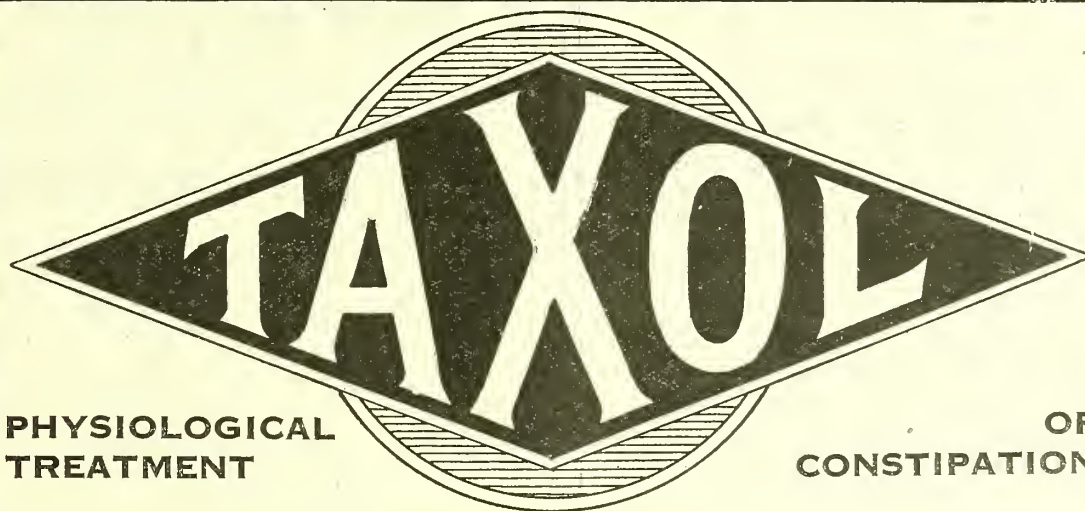
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*Its use does not lead to habit*

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Full duty, shipped expressly from  
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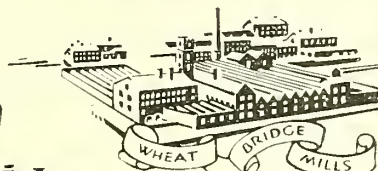
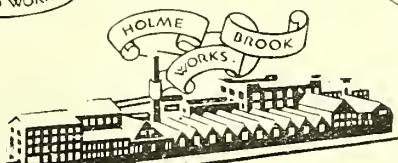
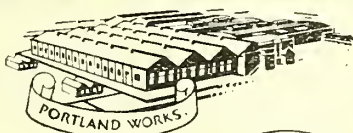
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We have expert box designers who have studied the needs of the trade  
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Buy a Business, Sell a  
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If so, you can do it quickly and  
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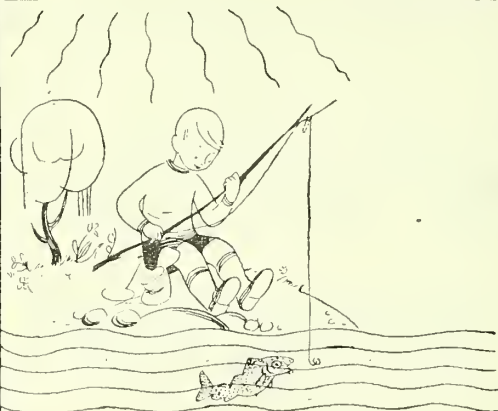
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For centuries Cod Liver Oil has been used as a medicine on account of its wonderful curative properties. Modern science has explained and fully endorsed its invaluable prophylactic and therapeutic action. Quite recently a number of scientific experts have proved that *no* artificially manufactured vitamin product is a complete substitute for Cod Liver Oil.

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The Finest Honey imported  
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**GUARANTEED PURE**

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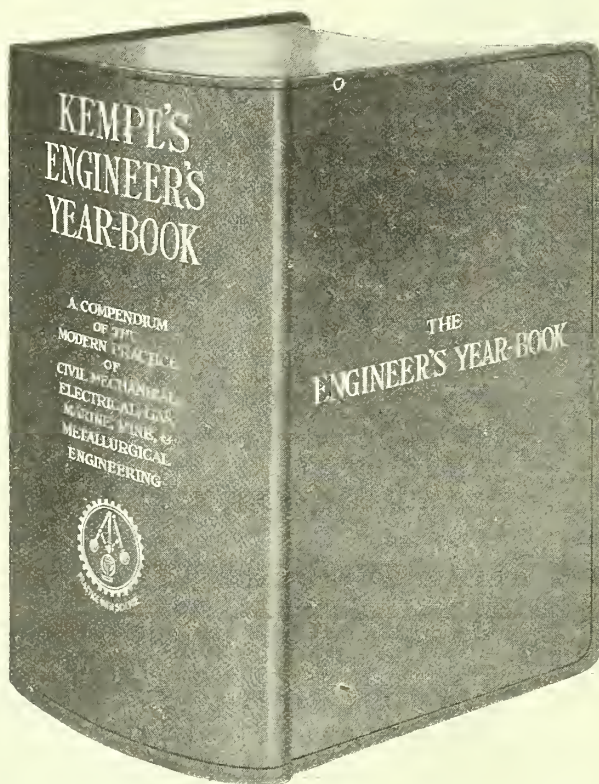
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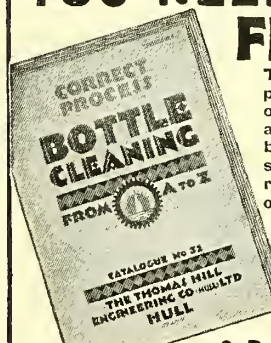
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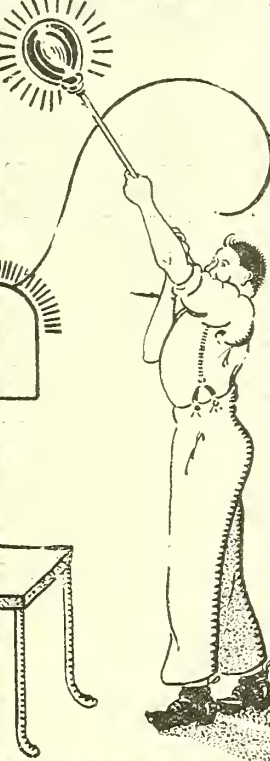
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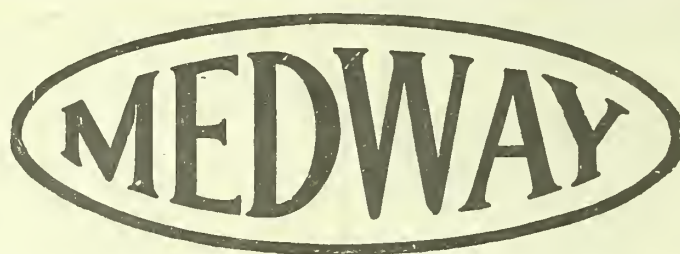
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# Iodized Throat Lozenges

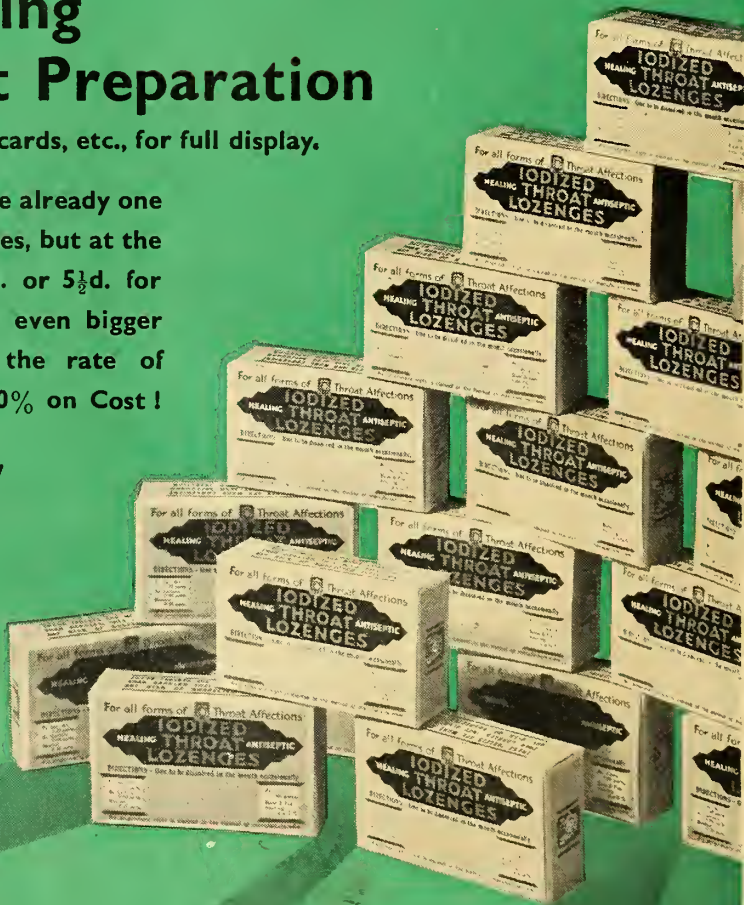
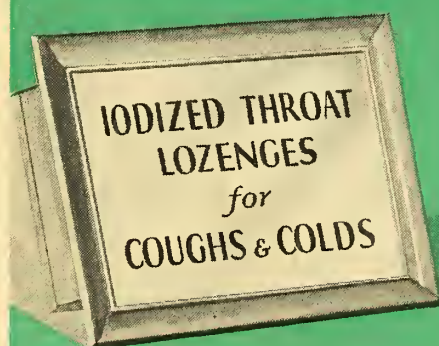
**FOR SALE IN BULK**

## The Best Selling Sore Throat Preparation

in Bulk, with cartons, showcards, etc., for full display.

Iodized Throat Lozenges are already one of the best selling winter lines, but at the popular retail prices of 3d. or 5½d. for 2 oz. they will attract an even bigger public than before AND the rate of profit is approximately 100% on Cost!

*January and February are the best months of the year for sore throat preparations so ORDER NOW!*

**FREE**

with orders or contracts for 56 lb. of Iodized Throat Lozenges, a moving Electric Sign 16"x 11½".

**PRICES**

2/- lb.

1/11 14 lbs.

1/10 28 lbs.

1/9 56 lbs.

1/8 112 lbs.

Contracts bookable at the above prices.

# ARTHUR H. COX & CO. LTD. BRIGHTON

# THE CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX ST.  
LONDON, W.C.2

JANUARY 2, 1932.

*This Supplement is inserted in every copy of The Chemist & Druggist.*

## THE CHEMIST AND DRUGGIST SUPPLEMENT

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ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

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Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Estrand, London."

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MUST REACH US  
NOT LATER THAN

FIRST POST

ALL ADVERTISEMENTS INTENDED FOR  
INSERTION IN THIS SUPPLEMENT

THURSDAY MORNING.

## ORRIDGE & CO.

1.—MIDDLESEX (Good-class Suburb).—General Retail and Dispensing Business, with Kodak Agency and Optics; returns this year about £2,300, with scope for increase; double-fronted shop, handsomely fitted and fully stocked; rent £100 per annum; held on long lease; further details on application.

2.—LONDON, S.E.—General Retail Business, with Kodak Agency and N.H.I. £10 to £12 monthly; returns under management about £2,000 per annum; double-fronted corner shop, well fitted and stocked; four-roomed house; rent £150; sub-let 27s. 6d. weekly; long lease; price £1,150.

3.—CROYDON.—Good-class Retail and Dispensing Business, capable of increase; returns last year about £1,500 at good prices; double-fronted shop, well fitted and stocked; comfortable living accommodation; new lease will be granted; part payment entertained.

4.—LONDON, W.C.—For immediate disposal, general Retail and Dispensing Business; returns about £35 weekly; well-fitted double-fronted shop; six-roomed house with bathroom; no reasonable offer refused; part payment entertained.

5.—NORWOOD.—General Retail and Dispensing Business, with Kodak Agency; returns about £1,450 per annum; net profit £375; stock and fixtures worth £650; rent £55 per annum; sub-let 35s. weekly; house can be obtained; price £950.

6.—ISLINGTON.—Middle-class Retail Business; returns average £1,500 per annum; present rate less on account of bad management; net profit under personal supervision, £450; good living accommodation; rent £57 10s.; long lease; stock and fixtures worth £550; price £600.

7.—EDGWARE (Suburban).—Cash Retail Business, situate in commanding position; returns, under management, £35 per week; double-fronted shop, handsomely fitted and very well stocked; net rent £125 per annum, inclusive; price, valuation of stock and fixtures only.

## 56 LUDGATE HILL, E.C.4

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8.—WORTHING (Near).—Medium-class General Retail Business, with N.H.I. and Photographic; returns last year £1,613, increasing; vendor estimates the stock and fixtures to be worth £720; good living accommodation; private entrance and small garden; rent £35 per annum; held on lease; price £1,100; good reason for sale.

9.—SOMERSET.—Country Retail and Dispensing Business, with round; delightfully situated in rural area 17 miles from sea; returns last year £1,300, with net profit about £490; scope for further increase; rent of shop, 11s. weekly; rent of house, £50 per annum; price £1,000.

10.—HAMPSHIRE.—General Retail and Dispensing Business, with Kodak Agency and small Optical connection; returns last year £2,560; gross profit 40 per cent.; double-fronted shop; living accommodation; reasonable rental; long lease; terms, valuation of stock and fixtures, plus £500 for goodwill; Optical stock need not be taken over unless required.

11.—BRECONSHIRE.—Good-class Retail and Dispensing Business for Sale on account of the death of the owner; returns last year £3,439; double-fronted shop in main street; living accommodation; stock and fixtures worth approximately £2,500; price to be arranged; the freehold property is also for disposal; further details on application.

12.—SOUTHERN HEALTH RESORT (Death vacancy).—General Retail and Dispensing Business in commanding position; Kodak Agency; returns approximately £3,000 per annum; scope for large increase; gross profit £1,450; upper part let off; valuation terms entertained.

13.—MIDLANDS.—General Retail and Dispensing Business, with Kodak Agency; returns last year £2,225; net profit approaches £550; ample living accommodation; rent £100; sub-let £12; price £300, plus valuation of stock and fixtures, about £1,500 in all.

14.—ESSEX.—Good medium-class Retail and Dispensing Business; returns for 1931 will exceed £3,000, with net profit about £750; corner shop; splendid living accommodation; rent £90 per annum; long lease; price £2,500; further details on receipt of bankers' reference.

**Chemists' Transfers, Valuations for Sale, Stocktaking & Probate**  
SPECIAL TERMS FOR INCOME TAX VALUATIONS

**BERDOE & FISH**

CHEMISTS' VALUERS AND TRANSFER AGENTS,

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(One minute from St. Pancras and King's Cross Stations.)

1.—WEST MIDLANDS.—Well-established Light Retail in good market town; returns average £5,200; good profits; stock and fixtures worth £1,500; price £2,250.

2.—WINCHESTER.—Good-class Retail and Dispensing, with small Optical connection; returns £2,560; net profit £550; two assistants kept; large house and pharmacy; long lease; price £500, plus valuation of stock and fixtures.

3.—SOMERSET.—Unopposed Country Retail; no side lines; pleasantly situated; returns £1,800; good profits; good house available; stock worth £450; price £1,000, or valuation terms arranged.

4.—HANTS COAST.—Good-class Business showing steady increase; returns approach £1,800; modern pharmacy, in good position, well fitted and stocked; long lease; price £1,200.

5.—HERTS (Few Miles Out).—Light Family Retail, with Kodak Agency; returns over £1,500; net profit about £450; good stock; price £850; recommended.

6.—LONDON, S.W.—Old-established, good-class Retail and Dispensing Business; returns over £5,000; net profit £1,000, audited books; modern pharmacy; main road position; price £4,000; references required.

7.—BAKER STREET STATION (Near).—Good-class Retail and Dispensing; returns £2,200; gross profits 40 per cent.; modern fittings; stock worth £550; price £1,150.

8.—ESSEX SUBURB.—Sound Light Family Retail, in unique position; returns over £2,200, increasing; net profit £585; large house; long lease; price £1,750, or close offer.

9.—LONDON, N.W.—Profitable Cash Retail; main road position; returns average nearly £2,200, audited figures; corner shop; long lease; price £1,500, or valuation terms arranged.

10.—STREATHAM (Near).—Good middle-class Retail; easily worked; scope for increase; returns over £1,200; net profit £360; beautifully fitted shop; good stock; price £950, or offer.

11.—LONDON, N.—Working-class Cash Retail; main road position; returns £1,300; net profit over £400; good house; low rent, on lease; splendid stock; price £700 or close offer.

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**PARKIN S. BOOTH, Valuer.**

Phone: City 1261-2-3.

**BUSINESSES FOR DISPOSAL.**

1.—LONDON, S.E.—Acid, Drug and Chemical Business for quick disposal. Premises held on weekly tenancy at 14s. per week, returns average £25 per week. Stock and fixtures estimated at £500. Offers invited.

2.—DEATH VACANCY.—DEVON.—Cash retail dispensing business recently opened. Reasonable lease will be granted or freehold may be acquired. Returns between £1,500 and £2,000, all cash. Good living accommodation. Applications for further particulars invited.

3.—BRIGHTON.—Very old established business situate in busy thoroughfare; rent £150 p.a. Premises consist of large shop, good windows, and showrooms. Could be let off at £80 to £100 p.a. Returns £30 to £40 per week, mainly cash. Scope for improvement. Further particulars on application.

4.—CHESHIRE.—Old-established Chemist's Business, situate in good position; single-fronted shop and dwelling accommodation held on lease at £59 p.a.; returns approximately £10 per week; price asked, £250. Further particulars on application.

**Stocktaking Valuations: We undertake this work at special rates and invite early applications.**

**ERNEST J. GEORGE, CHEMISTS' VALUER AND TRANSFER AGENT****TUDOR HOUSE, WALSALL.**

Tel.: Earnest, Walsall.

Phone: Walsall 3774

**Quotations for Stocktaking or for Pricing Chemists' Own Stock Records Supplied on Application**  
Correspondence is invited from prospective purchasers relative to the following businesses for disposal:—

(C1) EASTERN COUNTY.—Old-established agricultural business doing over £4,000 per annum; property also for disposal, including good house; preliminary information in strict confidence will be followed by further necessary details, in cases where the business is of interest, and facilities for personal investigation arranged in due course; interested applicants should indicate approximate capital sum available.

(C2) LONDON, S.E.—Old-established business, at present under management; turnover for last financial year approximately £1,200; excellent scope for increase under personal proprietorship; rent £80 per annum; lease 14 years; good living accommodation.

(C3) WILTSHIRE.—Old-established pharmacy, unopposed, available for disposal on account of illness and contemplated retirement of proprietor; average returns for last 3 years approximately £1,150 per annum; excellent scope for increase; good living accommodation, with garage; rent, £50 per annum, or property may be purchased outright; for a quick sale the owner is prepared to accept value of stock and fixtures only (approximately £600).

(C4) LONDON, EAST.—Good retail business, mostly cash trade; returns for last financial year approximately £1,850; net profits approximately £600; N.H.L. Dispensing (400/500 scripts monthly); and increasing; rent £35 on long lease; accountant's figures available; purchase price, £1,200 or near offer.

(C5) CHESHIRE—SMALL MARKET TOWN.—Old-established retail business, recently neglected, and possessing excellent scope for increase and development; present returns approximately £15 weekly; no opposition; population of district, 2,750; purchase price to cover value of stock and fixtures only (approximately £500).

(C6) LONDON, EAST.—Established retail and dispensing business, with good living accommodation; turnover approximately £2,300 per annum; net profits, £600; rent, £120; lease to suit purchaser. (Visited and recommended.)

(C7) LONDON, S.W.—Retail business with good living accommodation; returns for 1930-31 (increasing), £1,220; no near opposition; rent, £100; long lease. (Visited and recommended.)

(C8) NORFOLK.—Old-established pharmacy for disposal on account of contemplated retirement; double-fronted premises with excellent living accommodation; returns for 1930 approximately £2,000; chartered accountant's figures available; genuine proposition, capable of every investigation. (Visited and recommended.)

(C9) HEREFORDSHIRE (NEAR)—MARKET TOWN.—Sound retail business, situated in good class residential area; present returns approximately £35 weekly, being an increase on last year's figures;

modern living accommodation with all conveniences; net profits for last financial year, £480; rent, £40 on long lease; owner has option on larger business, and will consider any reasonable offer for quick sale; unique opportunity to acquire an exceptionally good profit-making business, perfectly genuine, and possessing good scope for further increase, at a figure not comparable with present-day value.

(C10) LONDON, S.E.—Old-established retail and dispensing business, well situated in main shopping area; present net profits exceed £400 per annum; death reasons for disposing; scope for further increase; purchase price approximately £950. (Visited and recommended.)

(C11) NORTH MIDLANDS.—Recently established pharmacy, occupying leading position in centre of small market town; owner disposing solely on account of unforeseen domestic circumstances; average turnover approximately £40 weekly, and increasing; moderate rental; 21 year lease; exceptional opportunity. (Visited and recommended.)

(C12) KENT.—Good family business, old-established, showing returns for last financial year upwards of £2,000; net profits approximately £500; rent, £85; lease, 17 years unexpired; good scope for increase; sound proposition. (Personally visited and recommended.)

(C13) MIDDLESEX—£200 OR OFFER.—Pharmacy (lock-up), sadly neglected, but possessing good scope for increase and development under personal proprietorship; present returns approximately £14 weekly; no near opposition; premises well situated; should be capable of making from £4 to £5 per week net profit; exceptional opportunity for beginner.

(C14) SUSSEX.—Good retail business with quick counter trade, situated in growing seaside resort; turnover for last three years records consistent increase; present returns £30 to £35 weekly; rent £35 on lease; good living accommodation; net profits exceed £450 per annum; reasonable purchase price. (Visited and recommended.)

(C15) PORTSMOUTH (NEAR).—Old-established retail and dispensing business with good toilet and photographic trade; returns (certified) for 1930-31 financial year, £2,560, with good scope for increase under personal proprietorship; owner disposing solely on account of other interests. (Visited and recommended.)

(C16) SOUTH DEVON.—Main road, double fronted pharmacy, for disposal owing to death of proprietor; good living accommodation; present turnover approximately £25 weekly and increasing; property may be acquired or lease could be arranged.

(C17) LANCS.—Old-established business for disposal on account of retirement; net profits as per audited accounts approximately £300 per annum; rent, £52 on lease; excellent scope for increase.

**S. F. CLARK, F.N.A.A.**  
**CHEMISTS' VALUER and TRANSFER AGENT**  
 34 Marksbury Avenue, Richmond, Surrey  
 VALUATIONS for sale, purchase, probate and Income Tax purposes, personally conducted in any part of the British Isles.  
**ACCOUNTS** audited. **BALANCE SHEETS** certified.  
**BUSINESSES** (all districts) available and required.  
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'Phone: 0  
 Richmond 221

## BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**ANERLEY, S.E.20.**—£125 secures Fixtures, good stock of Drugs and Shop Rounds in old-established Chemist's Business recently closed; splendid opportunity for regaining family business; good living accommodation to be let on lease or freehold for sale. H. F. Ferriss, 349 High Road, Lee Green, S.E.12.

### BLACKPOOL, NORTH SHORE.

**FINE** Chemist's, situated in rapidly-growing district; Kodak Agency; takings £15 weekly, approximately; corner property; double-fronted shop; separate entrance to living accommodation; electric throughout; opportunity for M.P.S. and Optician; business as it stands £625, property £1,950.

PACKERS', 174 PROMENADE, BLACKPOOL.

**BRADFORD** (suburb).—Old-established Chemist's; Cash Retail, Photographic and N.H.I.; lock-up shop; returns, cash £1,400 and N.H.I. £200; rent and rates £36; gross profit £650; price £800, or goodwill and fittings £375 and stock at valuation, about £425; a bargain and highly recommended; figures certified. Marsden, Chemists' Valuer, 29 Oakwell Crescent, Leeds. 'Phone 62890.

**BRIGHTON** (main street).—General cash trade; good Photographic; turnover £1,200; rent £100 per annum, includes rates, light, and gas; up-to-date fittings, including dispensing department; good clean stock; genuine opportunity and easy to run; can be purchased for the price of stock, about £400 or near offer; good reason for selling. 105/10, Office of this Paper.

**HERTS.**—Good-class Business; no side lines; no opposition; freehold, with living accommodation; returns £38 month, growing; to be sold for first good offer. Full details and valuation to qualified applicants. 102/17, Office of this Paper.

**KENT COAST.**—Attractive, up-to-date Pharmacy for disposal; fine position; main thoroughfare; offers exceptional scope for advancement; established third year; first year's returns approximately £2,000; past 9 months' estimated net profits about £450; Kodak Agency; Optical connection; spacious shop; sight-testing room; living accommodation; long lease; price about £2,000; a reasonable offer considered, or on valuation basis. "D.", 103/29, Office of this Paper.

**LEEDS SUBURB.**—Good cash trade; working-class district; good N.H.I. and D. & P.; genuine; fine opportunity for young man; owner going into wholesale. 102/15, Office of this Paper.

**LEICESTER.**—For sale, good Chemist's Business, well fitted and well stocked (no old stock); long lease; good living accommodation; rent £78 and rates £18 inclusive per annum; turnover £1,320; accountant's figures; price £1,100, or valuation terms; owner compelled to retire; prospective purchasers are invited to make personal application if possible. 104/7, Office of this Paper.

**LIVERPOOL.**—Medical and Surgical Stores; old established; main road; mail order connection; fine chance for qualified man; lease; option to purchase freehold; tobacco factory just opening at rear; house (at present let off), side door; nearest offer to £480 for quick sale. 10 Scotland Road.

**LONDON, S.E.**—Recently-opened Pharmacy; main road; rent £40; long lease; well fitted and stocked; 6-roomed house, redecorated, could be let to cover rent and rates; takings already average £16 per week, plus 500 N.H.I. per month; sound reason for disposal; price for quick sale, £650. 102/3, Office of this Paper.

**NORTH LONDON** (main shopping road).—Dispensing and Photographic; long lease; low expenses; good living accommodation; large N.H.I.; net profit £494 last year; stock and fittings worth about £550; price £750, all at, or valuation terms entertained. P.C.B. 17/40, Office of this Paper.

## JOHN BRIERLEY, F.N.A.A.

CHEMISTS' VALUER AND TRANSFER AGENT,  
 135 Queen Street, Newton Heath, MANCHESTER  
 Don't broadcast your business. If you wish to buy or sell a sound concern, get in touch with me in first instance and safeguard your interests (I SPECIALISE).

"Valuations by fully qualified staff." (Tel.: Failsworth 1913.)

**MID-WALES.**—For Sale, Pharmaceutical Business; established over 80 years; good Agricultural and Veterinary connection; Rexal, Ucal and Kodak Agencies, and Wine Licence attached; good position main street; takings about £30 week, which can be increased; stock and fixtures at valuation, plus small goodwill; lease of business premises can be arranged. Apply 196/942, Office of this Paper.

**SOUTH MANCHESTER SUBURB.**—Business offered with average turnover £2,450 for last four years; rent and rates about £75; lease; a little Optics in addition; price required £1,850. 104/26, Office of this Paper.

**WEST RIDING** Village; population 3,150; nearest opposition four miles away; vendor established 12 years; new fittings (Evans); full Wine Licence; returns £1,100; N.H.I. 350 monthly, certified; big profits; house, every convenience, three bedrooms; rent 25s. weekly; lease; opening for Optics; £800, or goodwill and fixtures £350, and s.a.v.; exceptional opportunity. Marsden, Valuer, 29 Oakwell Crescent, Leeds. 'Phone: 62890.

**YORKSHIRE, E.R.**—Business for Sale; net profits last three years average £683; complete price £1,050; lease. Please note.—This business is genuine. It is working-class. Triflers not desired. Bankers' reference essential. Interviews welcomed. Owner entering larger business. 105/4, Office of this Paper.

**DRUG** Store in busy street, large town, Yorkshire; well stocked and fitted; steady turnover; would suit a young, qualified; nearest offer to £350. Inquiries to 196/944, Office of this Paper.

**DRUG** Stores, no opposition, in working-class district; scope for N.H.I.; lock-up shop; rent 12s. per week; neglected; price for quick sale £100 or near offer. Apply 64 Broadwall, Stamford Street, Blackfriars, S.E.

**FOR** disposal, in South-West Lancashire, a Branch Chemist's Business under qualified management; double-fronted shop, with living accommodation, in main thoroughfare and centre of large population; rent £1 per week and rates; could be largely increased under personal supervision; price for quick sale £500 or at valuation or offer. For further particulars apply 103/27, Office of this Paper.

**FOR** Disposal, old-established Branch Business, occupying prominent corner site in very busy thoroughfare; turnover approximately £4,000; large N.H.I. Dispensing; average net profit £400 per annum, after allowing management charges; Optical department recently added. Further particulars will be supplied to principals on application to 104/17, Office of this Paper.

**RECENTLY** opened Chemist's Shop, fitted and stocked, lock-up, in London suburb; no living accommodation, shop and room only; returns low, but increasing; price £200 or offer. 104/35, Office of this Paper.

**VALUABLE** Lease for Sale, Pharmacy, established 16 years, a sublet upper part covers rent and rates, situated on main Great North Road, London, in flourishing middle-class district; average takings, under management, during last ten years exceed £2,000; stock at valuation; for quick sale, lease, £800. P.C.B. 18/2, Office of this Paper.

or near, for small Pharmacy, N.W.; neglect has £200, reduced turnover to about £9 per week, would soon pull up under personal supervision and right stock; plenty of scope; doctor adjoining; Kodak and Ucal Agencies; easy rent; high gross profits. To view, etc., write "Chemist," 18 Southfields, Watford Way. N.W.4.

## APPRENTICES.

**APPRENTICE.**—Wanted, a well-educated, gentlemanly youth as Apprentice in high-class Chemist-Optician's business, Cheetham, 31 Tothill Street, Westminster, S.W.1.

**SIX** months' experience in a Pharmacy, advanced knowledge of Pharmacy and Dispensing, used to N.H.I. Dispensing, requires Apprenticeship in a Pharmacy. 105/16, Office of this Paper.

**YOUNG** lady, 20 (passed Part I), requires Apprenticeship with London Chemist. Sherrill, 63 Rodenhurst Road, S.W.4.

**BUSINESSES WANTED.**

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**B**ERDOE & FISH are in urgent need of sound Businesses in all parts; cash buyers with capital up to £5,000 waiting to take immediate possession; correspondence from intending vendors cordially invited; quick sales negotiated privately. Transfer Offices, 41 Argyle Square, King's Cross, W.C.1. Phone: Terminus 5574.

**C**HEMIST offers £5 for information, if acted on, of position for opening; would purchase business on part-payment arrangement. 104/290, Office of this Paper.

**M**IDLANDS OR SOUTHERN COUNTIES.—Business required in a healthy locality, with a turnover of £3,000/£4,000 per annum; district must contain good educational facilities; Birmingham or London preferred, but will consider any sound proposition elsewhere which fulfils the above requirements, particularly if there is scope for further increase. All replies treated in strict confidence. 196/947, Office of this Paper.

**W**ANTED, good-class Business in London suburb or Southern County returning upwards of £2,500 per annum; living accommodation preferred, but not essential; cash buyer waiting. Apply Orridge & Co., 56 Ludgate Hill, E.C.4.

**AGENCIES.**

**A**CTIVE Commission Agents required to work well-known Proprietary Food Product in London, the Eastern Counties and Yorkshire. 196/938, Office of this Paper.

**C**INE Camera and Projector all in one, British invention, sells at £2 2s., takes stock size films. Wanted, established Wholesalers with Chemists' and Photographic Stores connection financially capable to take up exclusive county areas. Write Binks & Watkins, Ltd., 621/622 Bank Chambers, 329 High Holborn, London, W.C.1.

**E**XPORT SALES.—Keen and economical direct representation abroad is offered to highly reputable producers of Toilet and Washing Soap, Face Powder and Patent Medicines by Englishman having long and successful selling experience in South American and Eastern markets; he will arrive home in early January. Write Box 964, Sells Advertising Offices, Fleet Street, E.C.4.

**T**HE Representatives of the DeVilbiss Company, selling Atomizers and Sprays throughout the British Isles to all the leading Chemists and Stores, are prepared to take up one or two non-competitive lines on a commission basis. Apply D. J. Parry, c/o Aerograph Co., Ltd., 43 Holborn Viaduct, E.C.

**PARTNERSHIPS.**

**Q**UALIFIED Chemist, 25, experienced in Retail Pharmacy, seeks Partnership; would be prepared to invest £200-£400 in sound business. 103/28, Office of this Paper.

**PREMISES TO LET.****BLACKPOOL.**

**T**HE FINEST CORNER SHOP YET OFFERED IN SOUTH SHORE, occupied by Messrs. Boots Cash Chemists, becomes vacant March quarter, situated corner of Bond Street and Station Road, with entrance in each, having frontages of 27 ft. and 24 ft. respectively; five windows; few yards Promenade, Bath, Pier, Pleasure Beach, etc.; £275 per annum and rates; long lease.

PACKERS', 174 PROMENADE, BLACKPOOL.

**PREMISES FOR SALE.**

**A** GENUINE BARGAIN.—Freehold Premises built for Ladies' and Gent.'s High-class Hairdressing with Chemist's Department, all fully equipped and stocked, in main road 12 miles N.W. London; small capital can secure and balance on very easy terms. Andrews & Co., 58 High Street, Watford.

**H**IGH STREET, UXBRIDGE (adjoining Super Cinema).—Fine shop and living accommodation; opening for Chemist. Leno, High Street, Uxbridge. (Phone 862.)

**SITUATIONS OPEN.****RETAIL (HOME).**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**E**DMONTON.—Smart Junior wanted at once; Counter, Window-dressing and Dispensing. Unanswered in three days, declined. Apply 105/22, Office of this Paper.

**L**ONDON, E.—Assistant; just out of apprenticeship preferred; good Dispenser and Window-dresser; willing worker; accustomed to busy working-class business. State full particulars and salary required. 103/8, Office of this Paper.

**S**OUTH LONDON.—Required immediately, Qualified Manager; must be energetic and a capable business builder. Reply, giving fullest particulars and state salary required, "Gentian," 104/15, Office of this Paper.

**W**EST RIDING MENTAL HOSPITAL, WAKEFIELD.—Applications are invited for the post of Dispenser (male, non-resident). The person appointed must be registered under the Pharmacy Acts (Major or Minor Certificate of the Pharmaceutical Society). He will be required to perform certain clerical work in connection with the Out-Patients' Department and the purchasing of Drugs, Dressings, Surgical Instruments, etc., under the supervision of the Medical Director. The salary is £500 per annum, rising to £400 (less temporary emergency abatement of £8 15s. per annum), which is subject to contributions under the Asylums Officers' Superannuation Act, 1909. The successful candidate must pass a medical examination before appointment. Applications, stating age, particulars of training, qualifications, and practical experience, accompanied by three recent references or testimonials, to be sent as soon as possible to the Medical Director.

**A** YOUNG Male Assistant of good appearance and education wanted immediately; must be accustomed to a high-class Family Dispensing Business and have good recent references; salary to commence about £5 per week. Apply to E. B. Stamp, 29 High Street, Hampstead, N.W.3, giving full particulars. Applications unanswered in four days respectfully declined.

**C**HEMIST-OPTICIAN required. Applications, stating age, experience, and salary, to Secretary, Kilnhurst Co-operative Society, Ltd., near Rotherham.

**C**OMPETENT Assistant for Family, Retail and Dispensing Business; quick, accurate Dispenser essential; experienced at Counter and Window-dressing experience; references, salary (outdoor) in first letter. Applications unanswered in four days respectfully declined. Alban Atkin, M.P.S., 245 West End Lane, Hampstead.

**Q**UALIFIED Manager for branch shop. Reply, stating wages required, experience, etc. Must be over 25; Manchester district; middle-class business. Applications not answered in four days respectfully declined. 102/21, Office of this Paper.

**Q**UALIFIED lady Assistant required for a few weeks, possible permanency. Apply, with full particulars, to J. Noble, 20 Woodcote Road, Wallington, Surrey.

**Q**UALIFIED Lady or Gentleman required as Assistant-Manager; tall; good appearance. Apply, with copies of references and salary required, 104/9, Office of this Paper.

**T**IMOTHY WHITES require a really capable, qualified Manager; applicants must be energetic and possess organising ability; good prospects and free removal. Apply, stating experience, age, salary required, and full particulars, to Assistant Secretary, Timothy Whites (1928), Ltd., Portsmouth.

**U**NQUALIFIED male Junior, with knowledge of Frame Fitting in Optics preferred (outdoors), for Light Retail Dispensing business; no N.H.I. State age, experience, and salary required. Applicants not replied to in a few days, to consider the vacancy filled. Photo if convenient, which will be returned. R. Deck, Regent Street, Cambridge.

**W**ANTED, at once, qualified lady or gentleman for Midlands. Please state age, experience, and salary required and fullest particulars, first letter, to 105/9, Office of this Paper.

**Y**OUNG Improver wanted immediately. Full particulars in first letter. All not answered in three days respectfully declined. I. J. Kudish, 114 Commercial Road, London, E.1.

**WHOLESALE.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A** MANUFACTURER of high-class Perfumery and Toilet Requisites of world-wide repute wishes to engage at once two experienced Forewomen, accustomed to control and supervise the packing and labelling of Perfumery, Creams, Powders, etc. Applicants must be willing to proceed to the Continental factory for two months to assimilate the organisation and routine. Full particulars in the first instance by letter, stating experience, when disengaged, and salary required, to "H. E. C." c/o S. T. Garland Advertising Service, Ltd., Inveresk House, 346 Strand, W.C.2.

**A** PHARMACIST required for Pill and Tablet Department of large London Manufacturing House; a mechanical aptitude an advantage. State age, education, experience, and salary to 196/946, Office of this Paper.

**A** DVERTISING Assistant wanted by Wholesale Chemists for trade and medical printed matter; previous advertising experience preferable; age about 25 to 30; qualified or unqualified. State salary required and experience to 196/954, Office of this Paper.

**E** XPERIENCED Traveller wanted to call on Dentists, Surgeons and Chemists. "P. C. L., P.C.B. 18/5, Office of this Paper.

**I** NVOICE Clerk for Midland Drug House required; must be quick and accurate worker, and fully conversant with Patent Medicine prices. State age, experience, and salary required. 196/943, Office of this Paper.

**L** OONDON Export Druggists require qualified man used to D.D.A. checking and recording; one used to evolving new labels and "gets up" and checking accuracy of labels preferred. Apply 196/945, Office of this Paper, stating salary required.

**R** EPRESENTATIVE wanted for Durham, Northumberland and Cumberland by manufacturer of leading nationally advertised Proprieties. If anyone has had the necessary experience and wants a progressive position then apply, stating full particulars, to 196/939, Office of this Paper.

**R** EPRESENTATIVES required, on commission basis, to carry range of British Shaving Brushes; must have connection Chemists, Hairdressers, Stores. State definitely territory now covered add full particulars first letter. 104/12, Office of this Paper.

**T** RAVELLERS, already calling on Chemists, wanted for most counties, England, Scotland, Wales, to carry quick-selling line with liberal terms to Chemists; good repeats assured; 10 per cent. commission only. State counties covered and fullest particulars, references, lines carried, etc. 104/24, Office of this Paper.

**W** ANTED, Traveller for London and suburbs, calling on Chemists and Druggists, to take up side line to work and enlarge a good established connection; salary and commission. Apply P.C.B. 17/58, Office of this Paper.

**SITUATIONS WANTED.****RETAIL (HOME).**

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A.A.A.A.A.**—SCOT, qualified, 26, married, seeks permanency; 10 years' exceptional experience all branches; capable, energetic Manager; business builder; 3½ years' Continental experience; speaks French and Italian (little Spanish). Stewart, 18 Buckingham Road, Brighton.

**A.A.A.**—QUALIFIED: accustomed London management; good Salesman and Window-dresser; highest references. "Chemist," 57 Sutherland Street, S.W.1.

**A.A.**—GRACE RENNIE, Pharmacist, as Locum; highest credentials; Hospital, L.C.C. and Retail. "Phone: 448, Hastings. "Craig-y-Don," Marina, St. Leonards-on-Sea.

**A.A.**—ADVERTISER, 58, unqualified, desires permanent situation; 20 years' general experience; capable of taking full charge; good references. "B., 12 Benn Street, Rugby.

**A.A.**—QUALIFIED, 23, desires change; South Wales preferred; 7 years' experience; 4 years present London situation; moderate salary. 105/15, Office of this Paper.

**A.**—ASSISTANT; qualified; 24; good all-round experience, including Photographic; disengaged; excellent references. Gray, 45 Bents Road, Montrose.

**A.**—SUPER Salesman; M.P.S.; 8 years' experience; prize Window-dresser; Showcard Writer; Photography; London managerial experience; North Country preferred; Wholesale or Retail. "Chemist," 6 Archer Street, W.11.

**A** CHEMIST-OPTICIAN, experienced, seeks Managership with view to succession; used to complete control. 104/29, Office of this Paper.

**A** RELIABLE, unqualified Assistant, experienced and dependable worker, 8 years present employer, seeks progressive position; London or provinces; available now; interview anywhere. L. March, 69 Summerhouse Avenue, Heston.

**A** CTIVE; unqualified; experienced; middle-aged; reliable Dispenser; Stock; successful Manager; Locum; permanent. Fletcher, 91 Duncombe Road, Holloway, N.19.

**A** DVERTISER; 40; 5 ft. 8 in.; unqualified; thoroughly experienced; abstainer; now disengaged. Alexander, 189 Southampton Street, S.E.5.

**A** DVERTISER, 20 years' experience in the organisation and control of successful Chemists' businesses, seeks responsible post of similar character with progressive firm; highest testimonials. 105/18, Office of this Paper.

**A** S Locum (or suitable permanency); disengaged; qualified; experienced all-round Pharmacist; accustomed rapid Panel and Institution work; excellent recent references. "Statim," 28 Torrington Gardens, Wood Green, N.11.

**A** SSISTANT; unqualified; 22; honest; trustworthy; West-End, seaside and City experience; accurate Dispenser; N.H.I.; good Window-dresser, smart Salesman; Photographic knowledge. "C., 44 Turneville Road, W.14.

**A** SSISTANT (Junior); 19½; smart, keen, energetic; excellent testimonials; good Dispenser, Stock-keeper and Counter-man. Deeks, Bells Lane, Glemsford, Suffolk.

**A** SSISTANT, 25, requires situation, anywhere; good references; moderate salary; disengaged. "G., 30 Rutland Park, Sheffield.

**A** SSISTANT; unqualified; experienced; Dispenser, expert Window-dresser, Photography and Home Cine; height 5 ft.; smart and keen. "Taxol," 16 Northwood Road, Highgate, N.6.

**A** SSISTANT, unqualified, 54, tall, desires permanency; conscientious; sound experience; Dispensing, Counter, Photography and Window-dressing; excellent references. "Statim," 105/17, Office of this Paper.

**A** SSISTANT, unqualified, lady, capable and dependable worker, desires position end of January; 12 years' experience, Dispensing, Retail, etc. 105/11, Office of this Paper.

**A** SSISTANT or Dispenser; moderate salary; London experience; capable Dispenser and Salesman; take charge; unqualified. "H., Cwmiar, Llanybyther, Carmarthenshire.

**A** T ONCE.—Assistant requires post; well experienced, young, businesslike; good right-hand man. Hill, Whittings Farm, Mendlesham, Suffolk.

**C** HEMIST - OPTICIAN (27), M.P.S., F.B.O.A., J.C.Q.O., requires post as Manager; complete outfit for Optical Department; excellent references; disengaged January 1. "A. R. A., 14 Ommamey Road, S.E.14.

**C** HEMIST-OPTICIAN required to take as Assistant unqualified man; 28; capable and reliable; 10 years' good experience; moderate salary in return for Optical Tuition. 105/22, Office of this Paper.

**C** HEMIST, qualified, 40, capable and highly experienced in shop management, desires post; disengaged. "Statim," Clovelly, Melyd Avenue, Prestatyn.

**C** HEMIST strongly recommends his Assistant, aged 20; disengaged January 4th; high-class Dispensing and Counter, N.H.I. Hibbert, Brown Edge, Buxton.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**COMPETENT** Junior Assistant, 20, requires position immediately; Midlands preferred; Dispensing, Counter; good references. "Patmos," 85 Reeves Street, Bloxwich, Walsall.

**DISENGAGED.**—Unqualified; tall; Scot; 20 years' first-class experience; Dispensing, Counter, Photo; seaside, country, London; business builder; quick, clean, accurate; permanency. Johnstone, 3 Babington Road, Streatham, S.W.16. Phone: 1087.

**DISENGAGED.**—Lady (Hall qualification); Doctor, Chemist, Institution; whole or part time. 104/14, Office of this Paper.

**DISPENSER.** Assistant, or part-time; excellent references; disengaged. "S. S.," 135 High Street, Lee, S.E.15.

**EXPERIENCED;** unqualified; age 44; long West-End Pharmacy experience, etc.; temporary or otherwise. Little, 9 Westbourne Street, Sloane Square, S.W.1.

**EXPERIENCED** Assistant Chemist, excellent references, good at Counter, passed Part I prior to entering qualifying examination, requires immediate position; keen Salesman and hard worker; also quick and accurate Dispenser; anywhere in London. "L.," 32 Anson Road, N.W.2.

**FAIRWEATHER, MR.**—Locum; excellent experience; well recommended; state wants; disengaged; unqualified. 286 Kingsland Road, E.8.

**JUNIOR,** 20, requires situation; London; low wage; time off for study. 56 Sedlescombe Road, S.W.6.

**JUNIOR,** 20, 4 years' experience, desires post; excellent references; disengaged shortly. Trickey, 3 Highgrove Street, Reading.

**LADY,** unqualified, Assistant (Part I), desires post immediately; London, S.W., preferred; 5 years' high-class, all-round experience; sound references. Vogler, 17 Sussex Road, New Malden, Surrey.

**LADY** requires temporary or permanent position; good Dispensing and general experience; free immediately. "D.," 14 Tennyson Avenue, Twickenham.

**LADY** Pharmacist seeks berth as Manageress; good living accommodation; moderate salary; London or Suburbs; excellent experience; highest references; purchase considered. D. Briggs, 22 Wellesley Road, East Croydon.

**MANAGER** or Assistant; 35; qualified; experienced; London or Provinces; disengaged; partnership considered. "Chemist," 21 Church Road, Hanwell, W.7.

**MANAGER;** qualified; first-class experience all branches Retail, Photo and Dispensing; excellent references; disengaged. 105/23, Office of this Paper.

**M.P.S.;** 20 years' experience; disengaged; good references; as "Superintendent," Dispenser, or Locum; moderate salary. "Pharmacist," 3 Tomlin's Terrace, E.14.

**M.P.S.,** F.B.O.A., registered J.C.Q.O., young, requires for practising Optics; disengaged. State wage in reply. Moore, 71 Trafalgar Road, Newport, Isle of Wight.

**M.P.S.** (qualified 1909); married; Manager or Assistant; London and provincial experience; reliable Dispenser and Counterman; London district; available. 103/20, Office of this Paper.

**M.P.S.,** with Optical qualification, desires post in London; 22; multiple shop and high-class Dispensing experience; conscientious worker, thorough Salesman. Jackson, 116 Meanley Road, Manor Park, E.12.

**M.P.S.;** young; energetic; thoroughly experienced all branches of pharmacy; well recommended; will accept moderate commencing salary if prospects of advancement; available at once. "Pharmacist," 14 Bextley Mount, Harehills, Leeds.

#### NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

**M.P.S.,** sound business man, all-round experience, keen, hard worker, married, abstainer, seeks management good-class business; residential preferred; highest references; emergency or Locum entertained. "Areca," 104/6, Office of this Paper.

**PHARMACY-TRAINED** Assistant, lady (Hall); 7 years London, Hospital, and high-class experience. "P.," 150 Percival Road, Enfield.

**PART-TIME;** qualified; lady; 12 years' experience; excellent references; London. Evans, 4 Station Parade, Northolt. Phone: Southall 1522.

**PART-TIME,** evenings after 5.30, all day Saturday; good West-End experience. "F. B.," 73 Thurlby Road, Wembley.

**QUALIFIED,** 23, requires position; permanent or temporary; anywhere; disengaged now; holds R.P.U. Business Training Certificate; full particulars on application. Brobyn, 54 Ruspidge Road, Cinderford, Glos.

**QUALIFIED,** 42, married, free now, requires post as Manager or Assistant; good Window-dresser and Dispenser. 103/25, Office of this Paper.

**QUALIFIED** Pharmacist, 26, single, passed all but one section F.B.O.A., own optical equipment, excellent experience all branches, desires post immediately. C. G. Dann, 85 Westbourne Terrace, Hyde Park.

**QUALIFIED;** Manager or Assistant; middle-aged; good experience; abstainer; low salary; now at liberty; speaking French. P.C.B. 18/8, Office of this Paper.

**QUALIFIED;** tall; good appearance; Window-dresser; smart Salesman; best references. "Pharmacist," 16 Fernshaw Road, Chelsea.

**QUALIFIED** Chemist; small salary; middle-aged; energetic; good reference; London. Alex. Wilson, 14 Percy Circus, W.C.1.

**QUALIFIED,** middle-age Pharmacist seeks management, with living accommodation; highest credentials. "L.," 19 Marjorie Grove, S.W.11.

**QUALIFIED** Manager; 35; all-round experience, 11 years as manager; town or country. Catt, 5 Chelsham Road, S.W.4.

**QUALIFIED** lady (23) desires position; London or near N.W. district. "H. D.," 1 Hopefield Avenue, Broudesbury Park, N.W.6.

**QUALIFIED;** 32; tall; 17 years' experience in all branches; Managing, Photographic, Dispensing, Homeopathy. "C.," 239 Stapleton Road, Bristol.

**QUALIFIED** Chemist (lady), 24, with all-round experience and good knowledge of Dispensing, Photography and N.H.I., desires position; disengaged. Hall, 16 College Avenue, Maidenhead, Berks.

**QUALIFIED,** 29½, desires permanency anywhere; 14 years' experience, every branch of pharmacy; keen; conscientious; trustworthy. Terms. 104/27, Office of this Paper.

**QUALIFIED** elderly man for Locum work; Pharmacy, Hospital or Institution. Thomas, 37 Downs Road, Clapton, E.5. Phone: Chisold 1448.

**SMART** young fellow, first-class Dispenser, excellent for Counter, all complete for taking his M.P.S., wishes to be recommended a situation in London; willing to pay £3 for recommendation if it is a satisfactory engagement. Ring Bishopsgate 3831. 6 Ebbsfleet Road, N.W.2.

**SUSSEX.**—Lady (27), M.P.S., five years' qualified experience. S. desires post, Chemist or Doctor. Williams, 77 Freshfield Road, Brighton.

**WELL-RECOMMENDED,** homely, unqualified Assistant requires a situation; expert Salesman and thoroughly acquainted with all departments of the trade; sound references. "Worker," 103/4, Office of this Paper.

**50s. WEEKLY.**—Unqualified, 24, requires situation; energetic; capable; well experienced; disengaged. Wood, 58 Guildford Road, West Croydon, Surrey.

#### WHOLESALE.

**A** **QUALIFIED** Pharmacist, 25, disengaged, seeks progressive position in Representative or Administrative capacity with firm of repute; first-class experience as Medical Detail Representative and excellent Pharmaceutical training; proved interviewing ability; requisite personality; smart appearance; knowledge Anatomy, Therapeutics; resident London; experienced car driver; free for interview any time. 104/38, Office of this Paper.

# Trade follows the Ad.

The absolute necessity for increasing British trade — Home and Export — is daily being emphasised by statesmen, business men and bankers.

It is nowadays generally recognised that advertising in a reputable trade journal, with a genuine appeal to actual buyers like

## THE CHEMIST & DRUGGIST

is the most EFFECTIVE and LEAST EXPENSIVE way of selling goods. In the case of THE CHEMIST AND DRUGGIST the appeal is universal. Besides having as regular subscribers all the worth-while firms—manufacturing, wholesale, export and retail—in the United Kingdom, the subscription list includes the names of thousands of responsible firms buying and selling drugs, chemicals, perfumery, druggists' sundries, and allied products in the following countries overseas:

### BRITISH EMPIRE:

Australia, British Columbia, British Guiana, British West Indies, Burma, Canada, Ceylon, Cyprus, Fiji Islands, Gibraltar, Gold Coast, Hong Kong, India, Jamaica, Kenya Colony, Malay States, Malta, Newfoundland, New Zealand, Nigeria, North Borneo, Rhodesia, St. Helena, Sierra Leone, Trinidad, Uganda, Union of South Africa and Zanzibar.

### EUROPEAN CONTINENT:

Austria, Belgium, Bulgaria, Czecho-Slovakia, Denmark, Esthonia, Finland, France, Germany, Greece, Holland, Hungary, Italy, Latvia, Norway, Poland, Portugal, Roumania, Russia, Serbia, Sicily, Spain, Sweden, Switzerland, Turkey and Yugo-Slavia.

### CENTRAL AMERICA and SOUTH AMERICA:

Argentina, Bolivia, Brazil, Chile, Costa Rica, Cuba, Guatemala, Panama, Peru and Salvador.

### AFRICA:

Canary Islands, Congo (Belge), Egypt, Portuguese West Africa, South West Africa Protectorate and Sudan.

### NEAR EAST and FAR EAST:

Arabia, Asia Minor, China, Dutch East Indies, Japan, Manchuria, Mesopotamia, Palestine, Philippine Islands, Siam and Syria.

### UNITED STATES OF AMERICA.

### MEXICO.

Thus wherever the British Flag goes there also is THE CHEMIST & DRUGGIST, and the point to bear in mind is that it is sent regularly at the request of eager buyers of Drug-trade commodities who prepay 20/- to have it delivered to them weekly for twelve months. The firm with Drug-trade merchandise to dispose of, therefore, which is not advertising in THE CHEMIST & DRUGGIST is losing golden opportunities.

All particulars regarding available space, special positions, coloured insets, &c., from:

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## THE CHEMIST & DRUGGIST

28 ESSEX STREET, STRAND - - - LONDON, W.C.2

### BRANCH OFFICES:

49 County Buildings, Cannon Street,  
MANCHESTER.

1 Waterloo Street,  
GLASGOW.

54 Foster's Buildings, High Street,  
SHEFFIELD.

And MELBOURNE and SYDNEY, AUSTRALIA.  
AUCKLAND, NEW ZEALAND.

## The Dubarry Perfumery Co., Ltd.

### REQUIRE A

### FIRST-CLASS REPRESENTATIVE

to sell their BRITISH MADE PERFUMERY in a territory comprising MANCHESTER, LIVERPOOL, SHEFFIELD and adjacent districts, CHESHIRE, NORTH WALES, STAFFORDSHIRE and DERBYSHIRE. A splendid opportunity for a capable salesman, preferably with a good connection among chemists and large stores in the area. Salary, commission, and allowances; car provided and running expenses paid.

Write, giving fullest personal details (age, etc.), particulars of career and selling record, and stating if able to drive car, to the SALES MANAGER, GOLDSTONE LABORATORIES, HOVE, SUSSEX. All applications will be regarded as strictly confidential.

**A** YOUNG man, 29, 11 years' experience with two large Manufacturing Chemists, requires position in the same or allied trade anywhere; responsibility welcomed; sound knowledge of Buying, Sales, general office routine and systems; keen and enthusiastic; interview any time. 103/14, Office of this Paper.

**A** DVERTISER, young, wishes to represent house of repute; excellent connection, London; Beauty Preparations, Toilets, etc.; own car; consider Southern Counties; salary and commission. "Sales," 71 Sangley Road, S.E.25.

**A** DVERTISER, young, desires progressive position with Wholesale House, view to representation (10 years' Retailing and Laboratory experience). 103/16, Office of this Paper.

**A** DVERTISING.—Medical and Pharmaceutical Copywriter, 3 years with leading firm, free in January; trade and professional copy and display. "M.P.S.," 6 Warwick Square, London, S.W.1.

**D**ISENGAGED; open represent reputable House; Retail experience; sound connection South Wales adjoining English Counties; experienced driver. 104/8, Office of this Paper.

**F**OREWOMAN; disengaged; used to controlling large staff; good experience labelling, wrapping, etc.; good knowledge of Southall & Smith filling machines; excellent references. "M. B.," 47 Lowden Road, Herve Hill, S.E.24.

**Q**UALIFIED, 40, long Retail experience as Manager and proprietor, wishes to represent a reputable firm in the North; keen salesman, with up-to-date ideas, energetic, and hard working; interview desired. 102/18, Office of this Paper.

**R**EPRESENTATIVE, qualified, aged 25, excellent references from firm of leading Manufacturing Chemists, desires position; owns car; town or country. 196/940, Office of this Paper.

**R**EPRESENTATIVE, sound personal connection, Midlands (and around), desires re-engagement by first-class house; keen, conscientious worker of proved ability; qualified; undeniable references; own car; would consider first-class Agencies. 104/28, Office of this Paper.

**S**ALESMAN-TRAVELLER, with large connection Wholesale and Retail Chemists, Cheshire, North Wales, Lancashire, open for engagement with progressive firm; car owner, driver; salary and commission. 103/11, Office of this Paper.

**W**ANTED by medical man, many years' Laboratory experience, Bacteriological appointment. P.C.B. 17/28, Office of this Paper.

**W**ORKING Foreman (reliable) seeks situation; considerable experience manufacturing Pharmaceutical and Toilet Preparations. "L. B.," 51 Farnilo Road, Leyton, E.17.

## CLEAR OUT—your Old or Damaged Stock of Photo Goods

Why keep them any longer? Turn them into CASH. I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

S. E. HACKETT, 23 July Road, Liverpool

**Y**OUNG, qualified Pharmacist, 25, seeks progressive position in either Administrative or Representative capacity; excellent all-round Pharmaceutical experience, London and provincial Retail, two years in Laboratories of London Wholesalers, also Factory Manager for well-known Medical Speciality House; excellent credentials; keen and energetic; height 6 ft. 103/17, Office of this Paper.

## MISCELLANEOUS.

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**B**ARGAINS IN SECOND-HAND AND SHOP-SOILED FITTINGS.—Drug Fittings, Wall Cases, Counters, Dispensing Screens and Counter Cases. Write your requirements or call at PHILIP JOSEPHS & SONS, LTD., 90/2 St. John Street, Clerkenwell, E.C.1. "Pharmacy Fitters for Over a Century."

**C**HEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 356 Old Street, London E.C.1.

**C**HEMISTS' MAHOGANY FITTINGS.—Complete Drugfittings, 14 ft., 12 ft., 10 ft. and 8 ft. long, 8 ft. 6 in. high; Wallcases, 10 ft., 8 ft., 7 ft. long, 8 ft. 6 in. high; Glass-front Counters, 12 ft., 10 ft., 8 ft. and 7 ft. long; one Wallcase, 4 ft. 6 in. wide, 7 ft. high, 1 ft. deep; Dispensing Screens, 7 ft. 6 ft. and 5 ft. long; two 4 ft. Nests Counter Drawers; low prices to clear; sketches by return. GEORGE COOK, The Working Shopfitter (over 40 years' experience), 27 Macclesfield Street, City Road, E.C.1. Clerk. 5371.

**D**EVELOPING TANKS (ebonite), 20-gallon capacity, guaranteed chemical-resisting, cheap to clear, ex Chatham; state requirements. Bonus Perfume, 2 gross (assorted), retail 1s. each; two for 1s. 1d., 4s. dozen, or arrange exchange (sample 6d.). HENNING, LTD., Larnie.

**R**UDDUCK & CO., 219 and 227 Old Street, London, E.C.1, for Modern Chemists' Shop Fronts. Estimates, drawings and expert advice free. Call and inspect our stock of second-hand and shop-soiled Drug Fittings, Counters, Wall Cases and Dispensing Screens, etc., at low prices. We have what you want, to suit either large or small premises.

**T**REBLES' for Chemists' Fittings, Shop Fronts, Alterations; new or second-hand. Let us quote for your requirements. Pharmacy Fitters for over a century. 549 Lea Bridge Road, Leyton, London, E.10.

**£?**—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showroom a Complete Chemist Shop with Metal Shop Front, Window Backs, Correct Window Lighting Signs and Modern Interior Fittings. Apply for Lists. D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

## EXCHANGE COLUMN.

2d. per word: Minimum 2s. (Box No., 1s. extra.)

### WANTED.

**TESTING CASE**, carrying style preferred; lens measure, luminous ophthalmoscope and retinoscope. Particulars and price, Lindsay, Chemist, Maybole.

**SECOND-HAND ROTARY TABLET MACHINE**, to take up to 3 punches; Colton or Stokes; must be in perfect condition. Price and particulars, 196/941, Office of this Paper.